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WEATHER

The big dry

Saskatchewan crops losing yield daily under extreme dry conditions

BY BRIAN CROSS
SASKATOON NEWSROOM

Relentless heat continued to take a toll on crops in western and southern Saskatchewan this week, turning what might have been an above average harvest into one that will be average at best in some areas and below average in others.

In southwestern Saskatchewan, daytime temperatures peaked at more than 38 C July 30, capping off what has been one of the hottest and driest months on record in the province's southern grain belt.

In Swift Current, roughly nine millimetres of rain fell during the month of July.

Regina recorded just 1.8 millimetres on the month. That's less than a tenth of an inch.

"It's been dry, that's for sure," said Todd Lewis, president of the Agricultural Producers Association of Saskatchewan who farms near Gray, Sask., south of Regina.

"In July, we've had no measurable precipitation at all at our place... so everything's starting to look pretty stressed."

Although the 2017 harvest is just getting underway, this year's crop — at least in the southern part of the province — will fall short of the potential it showed just a few weeks ago.

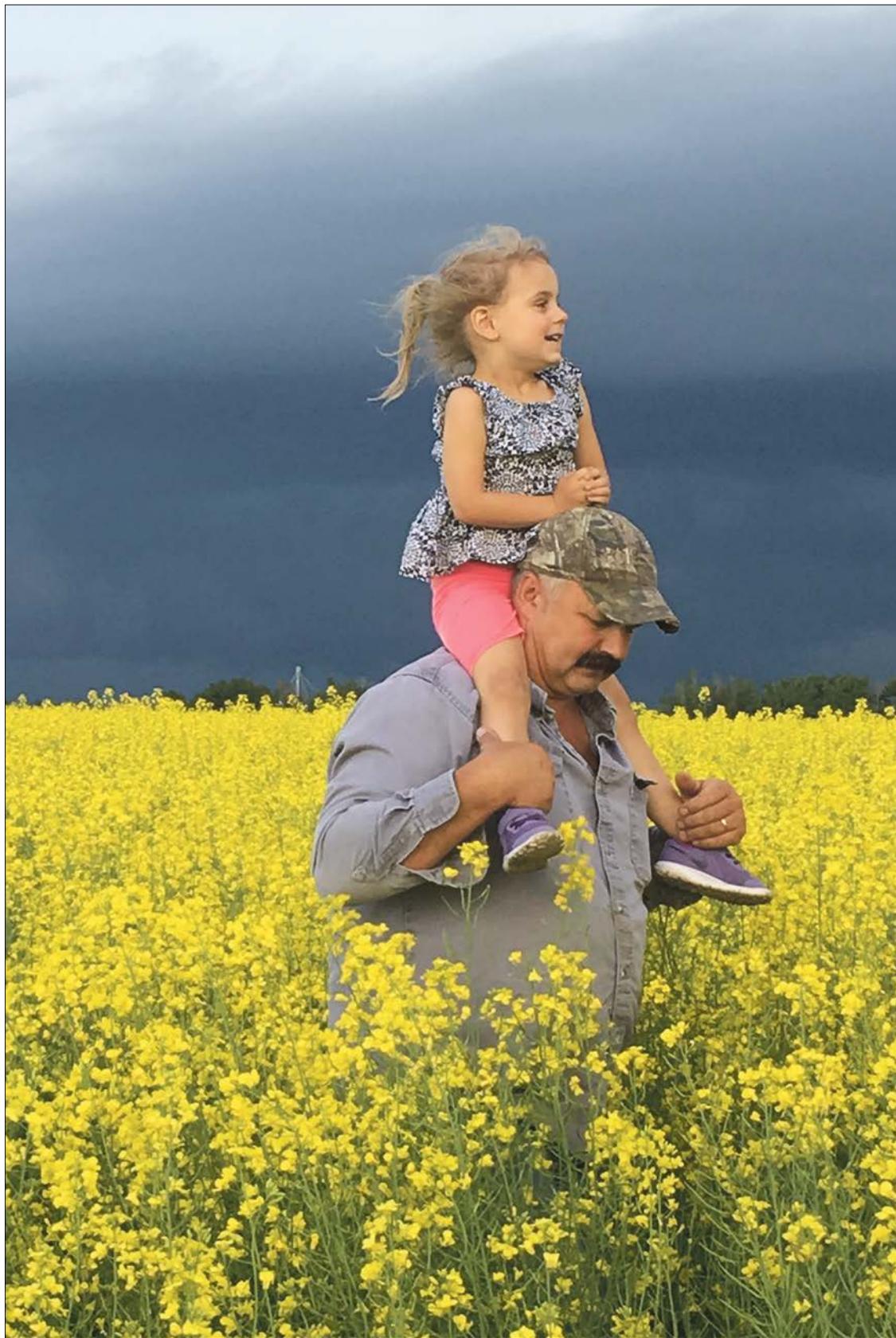
Rain has been a rare and precious commodity throughout the southern Prairies this summer.

Although many farms started the season with excellent soil moisture, the weather since then has been consistently hot and dry.

In general, crops seeded in late April or early May will be less prone to yield loss than those that were planted in mid- to late-May, Lewis said.

SEE THE BIG DRY, PAGE 4 >>

A STROLL BEFORE THE STORM



Greg Pukas walks through his canola field near Calmar, Alta., July 24 with his granddaughter, Emerson. | KATHY PUKAS PHOTO

CHINA

Meat goal could reduce crop exports

BY SEAN PRATT
SASKATOON NEWSROOM

The organization that establishes China's dietary guidelines wants to curb the country's insatiable appetite for meat.

Average per capita meat consumption has increased six-fold since 1978 and shows no signs of slowing down. It is the primary reason global investors are long-term bullish about agriculture.

But China is concerned about the mounting health and environmental problems associated with eating meat and raising livestock.

That is why the Chinese Nutrition Society has teamed up with Wild-Aid's 5 To Do Today, a Chinese campaign working on reducing greenhouse gas emissions, to decrease the nation's meat consumption by 50 percent.

"Much evidence has shown that long-term overconsumption of meat, especially processed meat, will impose adverse effects on our body affecting our health in the long run," Yang Yuexin, president of the Chinese Nutrition Society, said last year in a news release announcing the initiative.

SEE CHINA, PAGE 5 >>



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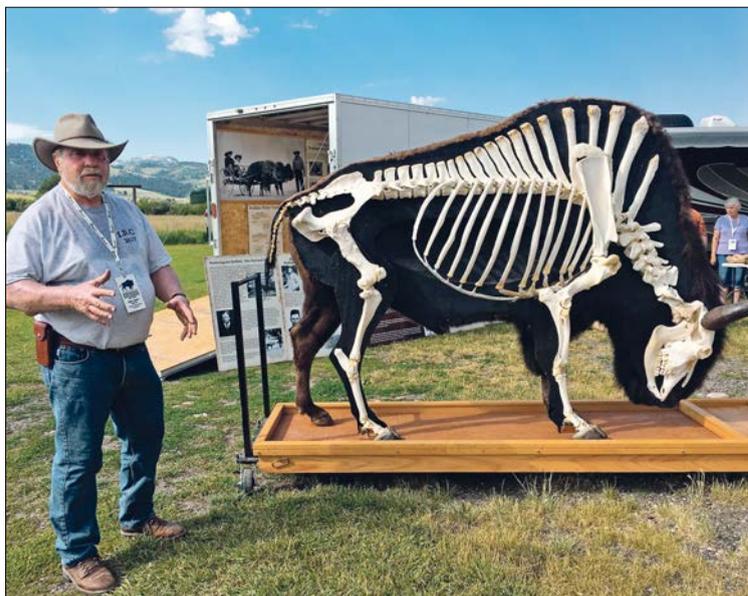
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An inside look: This unique display shows visitors what a bison looks like — both inside and out. See page 57. | BARB GLEN PHOTO

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CORRECTIONS

A percent of average precipitation map that appeared on page 4 of the July 27 issue used the wrong legend colours. A corrected version of this map is now online at www.producer.com.
A story on page 41 of the July 27 issue should have identified Yves Leduc as director of policy and trade at Dairy Farmers of Canada.

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WHAT'S HAPPENING @ PRODUCER.COM

FEATURES



AERIAL SPRAYING ACTION
Hot, dry weather has kept aerial sprayers on the ground lately. But the WP's Bill DeKay got some great shots of sprayers in action a few years ago.



FOOD GUIDE POLL
A revised Canada Food Guide will heavily promote plant-based protein. Groups representing animal protein sources are concerned. What do you think?



VENICE PHOTO FEATURE
WP "Tales From the Road" columnists Arlene and Robin Karpan visit Venice, Italy. Check out their beautiful photos of this famous city.

VIDEOS

HOLSTEIN SUCCESS

WP editor Brian MacLeod talks dairy with Ben Loewith near Lynden, Ont.



INSIDE BISON

Barb Glen recently got the inside scoop on bison. Literally.



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TIMING IS EVERYTHING



Field research at the University of Manitoba station in Carman confirms that the time of herbicide application alters the efficacy of weed killers. Jeanette Gaultier, left, Manitoba Agriculture weed scientist, and Katherine Stanley, U of M research associate, show examples of changes in efficacy during the Crop Diagnostic School held early July in Carman. The difference is smaller for systemic herbicides, but they are more effective in daytime than at night. | ROBERT ARNASON PHOTO

FOOD GUIDE

Farm groups raise concerns over revised food guide

Health Canada's new healthy eating guidelines will heavily promote plant-based protein

BY BARBARA DUCKWORTH
CALGARY BUREAU

A revised food guide hopes to sway Canadians toward healthier eating, but it is also making some farm sectors nervous.

"We don't know what the food guide will look like because what they have released is general guiding principles," said dietitian Isabelle Neiderer of Dairy Farmers of Canada.

There is a focus on protein-rich foods, but legumes, nuts and other plants are categorized together with animal-based products.

"If this is an indication of where they are heading in the food guide, as a registered dietitian I have a lot of concerns with that stand," she said in an interview during Dairy Farmers of Canada's recent annual meeting in Edmonton.

"It is sending a message that these foods are interchangeable, and they are not."

Plant-based proteins do not provide the same nutrients to ensure people receive adequate amounts of protein, calcium or vitamin D in their food, she added.

"The best sources of protein are animal products. They contain more protein per serving than plant-based foods," she said.

Joyce Parlow, director of consumer relations for Canada Beef, said the nutrient density of food

and calorie content needs to be considered when making recommendations for healthy eating.

Groups representing eggs, milk, turkey, chicken, pork and beef have formed the nutrient-rich alliance to promote consumption of animal protein.

"We can't ignore the nutrient-dense benefits of some meats," she said.

"All proteins are not equal. The protein sources from plant sources are not as nutrient rich as those from meat sources."

For example, seven tablespoons of peanut butter provide an equivalent amount of protein found in 75 gram serving of beef.

"You need to consume 460 more calories to get the same amount of protein from peanut butter than you would from beef," she said.

Health Canada said it conducted an extensive review of the scientific evidence to form the food guide in 2015.

A recent report highlights that most adult Canadians consumed milk products. It identified calcium, magnesium, vitamins A, C and D, phosphorus, potassium, zinc as being deficient in many diets.

Health Canada invites the public to comment on changes that encourage people to eat more fruits, vegetables and fibre, as well

as more plant-based protein. It is also zeroing in on reducing sodium and sugar in processed foods, especially in children's diets.

In a webinar in mid-July, Health Canada officials said a poor diet is a risk factor for obesity and many chronic diseases. Many Canadians do not follow a healthy eating plan and have easy access to inexpensive foods and drinks high in sugar, calories, fat and sodium.

It's hoped that a new food policy will increase access to affordable, safe and nutritious food and improve health and food safety. Health Canada also wants to promote environmental sustainable practices to ensure Canadians have a supply of long-term, reliable food.

Draft regulations may come out next year, and a full release is expected in 2019.

While some of the proposed changes are good, the information needs to be easy to understand and relevant, said Sylvain Charlebois, professor of food distribution and policy at Dalhousie University in Halifax.

"Health Canada will have to figure out a way to make the guide more relevant, modern and simple to understand," he said in an interview.

The proposal recognizes that eating habits have changed for many Canadians. More people snack, and eating three square meals a

day at home is less common.

Food labelling about sugar and sodium content could be included in this next round.

"Health Canada wants to make food labelling with the food guide, which would actually be a first," he said.

However, some wholesome products could be labelled as less nutritious because of the fat content, for example.

Some farmers may find reasons to be concerned about some of the proposals.

"There is this rhetoric around a plant-based diet that is getting a lot of attention," Charlebois said.

"Food is not just about nutrition. It is about culture and history and we need to be careful before we completely set ourselves on a different course. It is a complete departure from what we are used to eating," he said.

Nutritionists, dietitians, health professionals and those buying and preparing food for institutions such as hospitals and military will rely on the new guide to make healthy food recommendations.

"If the food guide changes, it may have a huge impact in public purchasing in general," he said.

Farmers are encouraged to submit their opinions even if the guide is only at the early draft stage.

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FOOD LABELLING

Is all organic food really organic? Maybe not

BY ROBERT ARNASON
BRANDON BUREAU

Almost all organic food in Alberta is legitimately organic, but there's a chance that's not the case for organic produce, meat or grain sold by farmers directly to consumers.

The Alberta government has no legislation requiring organic food to be certified if it is produced and sold within the province.

"Without these (provincial) regulations right now, anybody can grow anything and call it organic," said Tim Hoven, president of Organic Alberta.

The situation is the same in Saskatchewan, Prince Edward Island, Ontario and Newfoundland and Labrador.

"The CFIA (Canadian Food Inspection Agency) only has jurisdiction for products that are sold inter-provincially and internationally. It has no jurisdiction over intra-provincial sales," said Stuart McMillan, an organic inspector from Manitoba.

Canada's Organic Trade Association highlighted the regulatory gap in a state of the organic industry report released July 19.

The Alberta government has taken steps to regulate what happens at the more than 100 farmers markets in the province.

A provincial representative said the government has advised managers of farmers markets to tighten up organic protocols.

Vendors claiming organic status should be posting organic certificates at their stalls so consumers know they are officially recognized.

However, in some cases vendors may still be making an organic claim, with a sign or verbally, without providing a certification document.

At certain locations the boards that oversee farmers markets may have rules about organic signage, the provincial rep said.

If a vendor can't provide proof of certification at those markets, they can't display an organic sign on their booth.

Hoven said farmers markets rules aren't the same as legislation, but it's an improvement.

"It's kind of a temporary, stop-gap measure, until we can get legislation in place."

Beside farmers markets, many producers sell meat, vegetables and grain directly to consumers from the farmgate. Those producers can say their products are organic without certification.

Hoven said it's difficult to know how many, if any, non-organic products are misrepresented as organic in Alberta.

"I honestly do not know.... Are there dishonest people out there? Of course there are. How many of them? I don't know," he said.

"(But) I think your typical organic producer is a very honest person."

Organic Alberta has been lobbying to pass organic regulations, but the efforts haven't swayed the Alberta government.

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THE BIG DRY

» CONTINUED FROM PAGE 1

In the Gray area, many cereal crops are still in decent shape, thanks to optimal soil moisture conditions at seeding time and a healthy shot of rain than hit the area in late June.

"We're still hoping we're going to end up with close to average cereal crops," Lewis said earlier this week.

"I think the durum could still make an average crop in a lot of areas, but the canola certainly is not doing well."

In west-central Saskatchewan, crop conditions are variable, depending on localized thunderstorm activity during the past month or so, said Kindersley area farmer Jim Wickett.

Entering the week, yield potential in cereal and pulse crops ranged from slightly below average to slightly above, he said.

However yield losses are mounting daily.

"If you were lucky enough to get under a thunder shower here and there, then the crops are kind of hanging in there," said Wickett.

"If you weren't so lucky, things were looking good until about a week ago ... but with all the heat during the past week, things are starting to go backward."

Shannon Friesen, provincial crop specialist with Saskatchewan Agriculture, said harvest is just getting under way in the province, with less than one percent of the provincial crop combined as of earlier this week.

Harvest will be early and dry, she added, particularly in the south.

"Much of the south had yet another week of very warm, very dry conditions," Friesen said.

"Harvest is well under way in some areas, so if (farmers) do get some rain, it may help to fill some of the crops, but in many cases, it will be too late."

Wickett agreed, saying early seeded crops are generally better off than those seeded later in the spring.



Crops in southwestern Saskatchewan are suffering under intense heat. Temperatures in the mid- to high-30s C last weekend capped off what has been an extremely hot and dry July throughout the southern grain belt. Durum crops are losing yield as they struggle to finish under drought-like conditions. This photo was taken July 28 near Cabri. | BRIAN CROSS PHOTO

"The early cereals are done. They've been in for 90 days and they're on the turn now, so I don't think rain is really going to have any beneficial effect on them," he said.

"But some of the later crops could definitely use a rain. They're starting to show the effects of all this heat."

Temperatures in west-central Saskatchewan have routinely eclipsed the 30 C mark over the past week to two weeks.

Last weekend, the mercury peaked at 36 C in Kindersley, adding further stress to crops that are losing yield daily.

"It's just unrelenting," said Wick-

ett. "I think the cereals still have the potential to be a nice average crop ... but the canola is definitely going backward."

In many areas, later-seeded cereal crops are aborting kernels on the top portion of the spike as they struggle to finish under extremely dry conditions.

Canola yields will be affected significantly, despite what appeared to be an excellent start.

"It just keeps coming day after day," said Wickett.

"It's always hard to predict until you get in there with a combine, but I'd say we're looking at an average

crop at best in the Kindersley area, certainly not above. We're living on last year's rain."

In the area south of Regina, some growers are comparing the summer of 2017 with the summer of 1988, a year that many farmers consider the driest in recent memory.

"I think 1988 was bad, but I would say this year is certainly on par with '88," said Lewis.

"We're very fortunate that we had good moisture coming into the spring."

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READY, SET, STO

WEATHER

Alberta bears brunt of hail damage

LETHBRIDGE BUREAU

The heat of July has spawned numerous hailstorms across the Prairies, with Alberta recording the highest number of storms and Manitoba relatively unscathed.

The Canadian Crop Hail Association said in its July report that the few storms experienced in all three prairie provinces have produced little rain, but crops in southern Alberta and southern Saskatchewan are in desperate need of moisture.

Six tornadoes touched down in central and southern Saskatchewan last week with no major damage reported to buildings, the association said.

A July 13 tornado near Bretton, Alta., produced hail that affected some crops.

Across Alberta, the association said there were seven significant hailstorms in July. The most recent, on July 23 in the Wetaskiwin Valley region, let loose golfball-sized hail.

Thousands of acres in the Camrose, Daysland, Tofield and Vermilion areas were affected July 16 by a hailstorm with large hail and

DID YOU KNOW?

- The most expensive hailstorm in Canadian history occurred July 12, 2010, in Calgary. It tallied more than \$400 million in damages to homes, vehicles and businesses.
- That hailstorm also wiped out more than 222,394 acres of crops near Strathmore and Hussar, Alta., and caused crop damage claims totalling \$18.5 million.
- The previous claims record of \$340 million was set in 1991, also in Calgary.

Source: Environment Canada

strong winds. A separate storm on that same day damaged crops in an area from Eckville through Sylvan Lake and Red Deer to Delburne.

On July 15, crops around Guy, Donnelly, Falher, McLennan, Girouxville and High Prairie were heavily damaged by hail.

On July 13, the same day as the Bretton tornado, a different storm hailed crops around Athabasca, Thorhild and St. Paul.

Storms July 12 did heavy damage to some crops around Didsbury, Carstairs and Olds, and on July 10 hail struck in and around Bow Island, Coutts, Magrath, Milk River, Warner and Carmangay, the association reported.

It did not provide dates for July hailstorms in Saskatchewan, although some were reported in and around Saskatoon during the month, including Hanley, Outlook and Deslisle.

Various storms, some with hail, affected communities in the southeast, among them Lampman, Weyburn, Estevan, Bienfait and Frobisher.

Hail was also reported for July near Biggar, Dodsland, Kerrobert, Langham and Warman.

The association said Manitoba has had few storms since July 9 and those have created only minor damage.

However, more than 40 hail claims have been made after a July 19 storm in the Deloraine, Virden and Souris regions, and more claims may still be filed.

PAYMENT PROGRAMS

Farm programs need

BY KAREN BRIERE

REGINA BUREAU

Farm organizations are pinning their hopes for change on the one-year review of business risk management programs.

The clock is ticking on the process, but the review parameters haven't yet been announced.

Canadian Federation of Agriculture president Ron Bonnett said tinkering around the edges, as was done in the recent changes announced for AgriStability and AgriInvest effective April 1, 2018, is not enough.

"It's not really dealing with the heart of the issue," he said July 28 from his tractor.

The issue is that farmers aren't happy with the risk management tools they have, he said.

AgriStability is supposed to cover large income declines but it doesn't work for many farmers across different sectors. That caused participation rates to drop.

AgriRecovery, meanwhile, doesn't cover regional disasters.

However, farmers generally like and use crop insurance, and there is about \$2.2 billion in AgriInvest accounts they can access when they experience small income declines.

The new Canadian Agricultural Partnership contains no more money than Growing Forward 2. CAP offsets changes to the reference margin limit and allows late participation in AgriStability by reducing government contributions to AgriInvest and reducing the amount of eligible allowable sales.

Todd Lewis, president of the Agricultural Producers Association of Saskatchewan, said governments can argue that farmers have left money on the table because they haven't fully used the programs, but the changes don't make AgriStability more palatable to producers.

CONTINUED ON NEXT PAGE »



BOOK | Emily Lesy and her brother, Dorren, of Alameda, Sask., finished second in the daily stooking competition during the 63rd Annual Thresherman's Reunion, held July 27-30 at the Agricultural Museum in Austin, Man. | SANDY BLACK PHOTO

And more than tinkering: farm groups

We're hoping there's a willingness to go into that kind of depth rather than just kick the sides of the programs and see if they need to be modified a bit.

RON BONNETT
CANADIAN FEDERATION OF AGRICULTURE

"(The change) just sends signals as we go into the review process that if there's not going to be any more money in the pot, we better take a hard look at the programs," he said.

Grain Growers of Canada president Jeff Nielsen advised governments to give the review their undivided attention and not spend time on changes like those made for CAP.

"There has to be a way to come up with programs that work," he said. "I don't see this as that avenue."

CFA has said BRM programs must be credible, demand-driven and able to accommodate multi-year income declines.

Producers should be able to count on the programs to be predictable, timely and easy to understand.

Bonnett said he is reaching out to other industry organizations such as the pork and beef sectors to present a united front for the review. All are facing changing weather patterns and international trade issues.

He said the review should consider what tools other countries use and whether they could be adapted for Canada.

"We're hoping there's a willingness to go into that kind of depth rather than just kick the sides of the programs and see if they need to be modified a bit," he said.

Bonnett also said he would pre-

fer farmer input in the process be seen as partnership rather than consultation. Being consulted every five years is hardly what farmers need, he said, and suggested a revival of something like the former safety nets advisory committee.

He added that a year should be enough time for the work to be done, providing governments supply adequate resources.

The review is just one initiative in the works.

Ottawa last week said it would extend the consultation period on a national food policy until Aug. 31. More than 22,000 people had already completed the online survey launched at the end of May.

Regional sessions are planned for August and September in Winnipeg, Vancouver, Yellowknife, Guelph, Saint-Hyacinthe and Charlottetown.

Bonnett said the government should focus on the core areas it proposed: increasing access to

affordable food, improving health and food safety, conserving soil, water and air, and growing more high quality food.

"I think one of the things we have to watch is, is it just getting to be a food policy that tries to satisfy every group that's coming out of the woodwork to have input," he said.

The food policy was on the agenda at the federal-provincial-territorial agriculture ministers' meeting in St. John's in July.

Ministers also discussed labour issues, considerations for agriculture under the federal plan to legalize cannabis, how to foster indigenous agriculture and federal investments in value-added industries and high-growth areas.

Ministers endorsed the Plant and Animal Health Strategy for Canada, which addresses risks and shifts emphasis from response to prevention.

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CHINA TO TRIM MEAT

» CONTINUED FROM PAGE 1

China consumes half of the world's pork and 28 percent of total global meat production.

Average per capita meat consumption in China is 63 kilograms per year and is expected to rise 50 percent by 2030 if there is no intervention.

New dietary guidelines published by the Chinese Nutrition Society call for people to consume 14.6 to 27.4 kg of meat per year, which at the high end is less than half of what they currently consume.

China accounts for about two-thirds of global soybean imports. The seed is crushed and the meal is fed to pigs and other animals. China is home to about half of the world's total pig population.

Any sizable reduction in China's hog herd would have big repercussions for soybean and canola prices.

Paul Burke, north Asia country director for the U.S. Soybean Export Council, doesn't believe the Chinese Nutrition Society will accomplish its objective. In fact, he is convinced meat consumption and consequently soybean sales will continue to rise through 2030.

That is because the Chinese government has a goal of moving 300 million people from rural areas to urban centres, where they will be earning more money and eating more meat.

Research shows the urban transplants tend to increase their consumption of animal protein and vegetable oil by 30 percent.

Burke said the new dietary guidelines may influence some educated consumers but many will ignore them.

What is a potential threat to feed suppliers is China's initiatives to get serious about the environment. As well, there are serious discussions taking place at various think-tanks about radically reducing Chinese animal production and instead relying on imports.

"But so far I have not seen any indication that those policy considerations are gaining any traction. They might in the future," he said.

If China's new dietary guidelines were adhered to, it would reduce global greenhouse gas emissions by an estimated 1.5 percent.

Ron Davidson, director of government and media relations with the Canadian Meat Council, doesn't know what to make of China's stance on meat consumption.

"We don't know how this is all going to play out," he said.

"To what extent are the consumers going to actually reduce consumption because of what the government wants them to do?"

China is Canada's third largest pork market behind the United States and Japan. It purchased \$581 million worth of Canadian pork in 2016, up from \$59 million in 2010.

"It has been a huge growth market," said Davidson.

"If there was a decline in total consumption that certainly wouldn't be advantageous to us."

But he noted that it can be difficult to change people's eating habits through government policy.

A good case in point is China's previous dietary guidelines published in 2007 that called for per capita meat consumption in the range of 18.3 to 36.5 kg per year but people are eating 63 per year.

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MARKETS



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PRICE RALLIES

Has the market priced in drought damage to spring wheat?

BY ED WHITE
WINNIPEG BUREAU

The recent slump in hard red spring wheat futures doesn't necessarily mean the 2017-18 rally is done and dusted, say some analysts.

However, it might be weeks or months before a more permanent pricing level is established, following what might be the climax of the summer spike.

"We have to wait," said analyst Darin Newsom of DTN.

Jon Driedger of FarmLink Marketing said spring wheat's ultimate peak might or might not have been reached in early July, when various Minneapolis futures contract months and cash prices ranged from US\$8 to more than \$9, so farmers shouldn't assume the present decline is permanent.

"It's hard to say, but the outlook is pretty good," said Driedger.

Neither were surprised to see Minneapolis spring wheat futures fall after soaring high in early summer. The form of the rise, the dynamics behind its strength and the stage of the crop all made the peak and decline

relatively orthodox.

"What we saw was a picture-perfect short-supply spike rally," said Newsom.

"Once we accept the fact that the supplies are tight and we get closer to harvest, there's almost always this immediate tipping point where commercials (companies that use physical grain) go from buyers to sellers, or they step out of the market because they have bought or locked in everything that they need."

Newsom said the higher nearby futures prices in the early summer proved to him that commercial users were leading the rally, and their hunger for protein was clear in the growing spread between spring wheat and winter wheat contracts.

The 2012 U.S. Midwest corn and soybean rally was similar with commercial users buying futures to protect their obligations, scrambling as the 2012 drought grew in severity. However, they stopped buying once they had needs covered, and speculators soon saw prices swoon as the "vacuum" of aggressive buyers beneath surging prices allowed

prices to fall hard weeks before the corn and soybean crops were done growing.

Today, the spring wheat futures market has been falling for weeks, even as drought has worsened in much of the U.S. and Canadian growing areas. The U.S. Hard Red Spring Wheat and Durum Tour (conducted in the last week of July) estimated a U.S. spring wheat crop of only 38.1 bushels per acre, compared to the tour's estimate of 45.7 in 2016. Durum was estimated to be 39.7 bu. per acre, compared to 45.4 last year.

Spring wheat futures have fallen weeks before the Canadian crop is mature with more damage possible. However, most of that damage has already been baked into futures prices and the situation is now one of commercial users ignoring the market and farmers beginning to have harvested crop to sell.

As new crop supplies begin to flow in to elevators, selling pressure builds on the futures market and prices are likely to have trouble rallying significantly, although day to

day gyrations are inevitable, Newsom and Driedger said.

"The minute the combines start to roll, or even when people start talking about harvest, the pressure comes in," said Newsom.

Driedger said cash prices are less volatile, and he's more confident following those in coming weeks. Futures markets are volatile and tend to overreact to every new influence in the market, while cash markets are more staid.

"It's just the wild west in that (futures) market. If I was just straight trading, I'd be terrified to be short or long," said Driedger.

However, Driedger and Newsom said futures and cash prices should begin to align more tightly and in a more stable relationship once harvest pressure is done and once commercial users need another round of supply.

"We have to wait for the commercial side to come in again," said Newsom.

"It's only once we move through that initial supply that we start to re-evaluate or re-adjust where these markets need to be."

That's why Driedger said farmers might see another rally leg in

the late fall or winter. However, much depends on other wheat markets and other crop prices because spring wheat can only go so far by itself.

"There's no shortage of wheat globally. There's just a shortage of this type of wheat," said Driedger.

The summer 2017 rally has shown farmers the role of the futures market clearly. As the crop began to have problems, users that needed supplies raced to cover their obligations, which drove up prices.

Higher prices drove off demand, and the market settled back into a less panicked state even as the drought worsens.

"The job of the market, if crops are tight, is to ration demand," said Driedger.

"Markets do that early."

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WILL SPRING WHEAT FUTURES SEE ANOTHER PRICE RALLY?

The summer high for spring wheat futures might be already in and prices will likely be under pressure as harvest approaches, but analysts say there is potential for another rally later this year once the market has a clearer understanding of how much grain was produced and its quality.

MGEX December spring wheat, \$US/bu.:



Source: MGEX | MICHELLE HOULDEN GRAPHIC

It's just the wild west in that (futures) market. If I was just straight trading, I'd be terrified to be short or long.

JON DRIEDGER
FARMLINK MARKETING

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FLAX

Prairie flax crop in tough shape

Prices have yet to react but market could rise when China steps in to resupply

BY SEAN PRATT
SASKATOON NEWSROOM

Growers might want to be patient when marketing the 2017 flax crop, says an analyst.

Small crops in Canada and the United States will create a tight supply and demand situation in North America, said Chuck Penner, analyst with LeftField Commodity Research.

He forecasts 550,000 tonnes of Canadian production, well below Agriculture Canada's estimate of 680,000 tonnes.

A lot of Canada's flax is grown in the drought-stricken regions of the Prairies.

Penner estimates there will be about 200,000 tonnes of carryover from the 2016-17 crop to help bolster supplies, but much of that will be of poor quality.

Derek Squair, director of merchandising with Providence Grain, also expects a short Canadian flax crop.

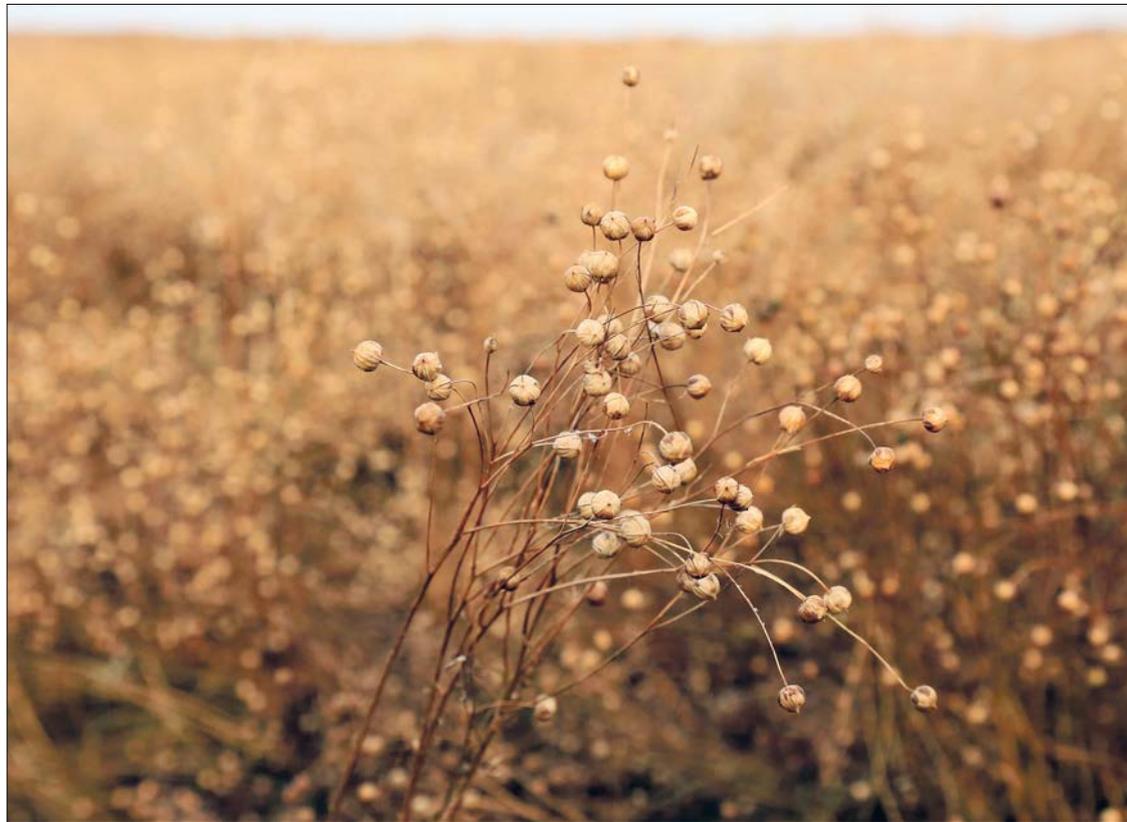
"A lot of it is grown in the areas that are going to get hit pretty hard, so (it is) concerning," he said.

"I would think we're going to have some pretty low (yield) numbers."

Almost one-third of Saskatchewan's flax was in poor or very poor condition as of July 24, according to Saskatchewan Agriculture.

The U.S. crop is in even worse shape. It is primarily grown in northwestern North Dakota and northeastern Montana, which is the epicentre of the drought.

According to the U.S. Department of Agriculture, 57 percent of North Dakota's flax crop and 77 percent of Montana's was in poor or very poor



Almost one-third of Saskatchewan's flax was in poor or very poor condition as of July 24. The U.S. crop is in even worse shape. | FILE PHOTO

condition as of July 30.

Poor yields combined with 24 percent fewer seeded acres will result in a much reduced U.S. crop. Penner expects 115,000 tonnes, down 48 percent from last year.

Squair said demand has been slow, so prices haven't risen but they will likely climb later.

"We may get into a tightness some time after Christmas or into the new year," he said.

Penner agreed that the looming short crop has yet to be factored into prices, mainly because of lackluster purchasing from China, which sits on a sizeable inventory of flax.

"It may not start to show up actually until after harvest," he said.

Bids for food quality flax ranged from \$12.50 to \$13 per bushel as of July 31, while bids for flax destined for export markets were about \$10.50 to \$11.50.

Penner believes there much room for prices to rise once China

returns to the market after harvest. "We've got some pretty solid upside," he said.

One factor that will keep a lid on prices is slumping demand. Bulk exports for 2016-17 are down 23 percent from the previous crop year.

Exporters had shipped 253,000 tonnes of the crop with one week remaining in the crop year, compared to 365,000 tonnes for the same period in 2015-16, according to the Canadian Grain Commission.

Penner expects even smaller exports in 2017-18, mainly because of poor European demand as Black Sea producers regain market share.

He forecasts exports to China will be similar to 2016-17.

"But the U.S. demand will pick up because their crop is in even worse shape than ours," said Penner.

"The crop ratings that they have are just abysmal."

The big Black Sea crop will likely limit the rally. Initially Penner believed it would be impossible to match last year's amazing yields in Russia and Kazakhstan, but based on the first yield reports with other crops, it looks like production could be similar.

Some Black Sea flax was restricted from entering the EU last year because the EU tightened maximum residue limit for haloxyfop, a common pesticide used by Russian flax growers.

Penner believes farmers avoided using that chemical in 2017 so that they can recover market share lost to Canada and other exporters.

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GRAIN STORAGE

Silver lining to smaller crops: less off-combine selling

BY ED WHITE
WINNIPEG BUREAU

Farmers probably won't race down the gravel roads of Western Canada to dump off-the-combine crop into the elevator system.

That's one of the few silver linings to the cloudy situation that so many Prairie farmers face — smaller-than-expected crops and adequate bin space are reducing the need to move crop fast.

"People having to sell right off the combine just won't be a factor," Neil Townsend, analyst with Farm-Link Marketing, said after hearing reports from his company's network of crop advisers.

"Across the board the crop is getting smaller in all of the majors," he said. "Canola was going down, barley down, oats down, lentils up just a fraction, peas down, soybeans down, flax was down, corn was down, mustard was down."

The smaller crops, when combined with heavier than expected recent export sales of durum and wheat, low canola stocks and a general feeling that overall crop stocks are probably a bit lower than expected, means farmers should have plenty of room to store the 2017-18 crop.

That should allow farmers to market for cash flow and marketing plan reasons rather than to get rid of excess crop, which has been a challenge in recent years with huge

crops, Townsend said.

John Duvenaud, publisher of the *Wild Oats* marketing newsletter, had similar opinions.

"Lack of bin space really won't be a problem this year," he said.

Farmers apparently did not keep excessive amounts of damaged 2016-17 crops. That goes against the theory that farmers would hang on to quality-damaged 2016 grain in the hope the 2017 crop would be better, providing more blending

opportunities and fewer discounts.

"It just doesn't seem to be something our guys are contemplating," said Townsend.

Something else that might be more rare than earlier expected is the use of grain bags, he said. Many farmers had troubles preserving quality after bagging grain, and with lots of bin space available, there will be less bagged grain, Townsend said.

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CROP YIELDS

Abandonment might be biggest story in U.S. spring wheat

MARKET WATCH



D'ARCE McMILLAN

Last week's U.S. Wheat Quality Council annual spring wheat tour confirmed crop yields would be lower than usual but maybe not as small as some farmers thought.

The tour pegged average spring wheat yield at 38.1 bushels per acre and durum at 39.7 bu. It did not issue a forecast for total production.

Wheat yields in the high 30s don't seem to match the scenario of extreme drought in the Dakotas and Montana.

For spring wheat, the 38.1 bu. per acre is down from last year's bumper crop of 47.2 bu. per acre. Indeed, the United States has had a string of good spring wheat crops, and the five-year average is a strong 46.4 bu. per acre.

The council's estimate is 18 percent below the five-year average. If that still seems high, there are

IN THE 2002 DROUGHT,

14.5%

OF THE U.S. SEEDED SPRING WHEAT AREA WASN'T HARVESTED.

several considerations to note.

North Dakota is the largest spring wheat producer, and its production is concentrated in the northern and eastern part of the state. The moisture deficit there is not as bad as in the western area.

As well, today's varieties are possibly more drought resistant, and there was good subsurface moisture going into the growing season.

However, yield is just one part of final production. So is harvested area.

The current U.S. Department of Agriculture estimate of spring wheat seeded area is 10.899 million acres. It forecasts 3.7 percent won't be harvested.

That is slightly worse than the recent trend, but conditions this year are far worse than the recent trend.

The spring wheat tour noted a large number of fields already cut and baled for feed because the yield potential was not worth combining.

In the 2000s, the previous worst year for spring wheat production was 2002, when abandonment was 14.5 percent, or 2.27 million acres.

Going back to the granddaddy drought of 1988, the abandonment rate was more than 21 percent.

If you used the council's yield forecast of 38.1 bu. per acre and the 2002 abandonment rate of 14.5 percent, you'd get 9.32 million acres harvested with total production of about 355 million bu.

That is 63 million bu., or 1.7 million tonnes less than the current USDA forecast.

If you used the 1988 abandonment rate and the tour yield, you'd have 8.578 million harvested acres producing a crop of about 32.7 million bu.

That would be about 95 million bu. less than the current USDA forecast, or 2.59 million tonnes.

Follow D'Arce McMillan on Twitter @darcemcmillan or email darce.mcmillan@producer.com.

PRICE RALLIES

Speculation taking back seat to commercial realities

HEDGE ROW



ED WHITE

This summer's spring wheat rally has been stunning and exciting, especially if you are a farmer who has some of the crop in the bin or a good crop in the field.

It's more bittersweet if you have a drought-ravaged crop with poor prospects.

It's also been a nostalgic time for veteran crop market watchers (like I now feel I am) because this rally and its aftermath seem much like the rallies that used to dominate the crop markets before the era of the "commodity boom" or "commodity super cycle."

The 2017 spring wheat rally wasn't driven by crude oil values, outflows of "hot money" from stock and bond markets, dreamy predictions of a golden age of global growth or "risk-on, risk-off" behaviour.

The rally this summer was the product of widespread drought in a specific crop's core growing area and the scramble by commercial users to cover their needs.

Once the grain companies, millers and processors had their needs hedged, they just walked away from the market and it fell.

Speculative money has played a role in the rally, but so far only a supporting one, adding liquidity and strengthening the up and down trends, but not leading them.

In that way it has seemed like the markets I covered from the late 1990s to mid-2000s, when traders and analysts I regularly called would almost always bring up commercial hedging actions first when talking about markets. Since about 2006 that hasn't generally been the case. Commercials were often an afterthought or not even mentioned.

I called a couple of analysts who were around before, during and after the commodity boom, and they confessed to the same nostalgic feeling this summer.

"It's kind of refreshing that it's not

just (the market) chasing hot money," Jon Driedger of FarmLink Marketing told me.

"In some ways it's a pure weather market rally because the other commodities haven't been very sexy for a while."

Darin Newsom of DTN said this rally was free of the distracting elements of the commodity boom, leaving the market mostly in the hands of the people who actually use the commodity. This was all about the crop itself.

"It has a completely different feeling about it now than it did (during the boom)," said Newsom.

There were definitely crop-related rallies during the commodity boom, including the incredible spike in wheat prices in 2008 and the corn and soybean rally of 2012.

However, the heights those rallies reached had as much to do with the overall commodity rally as they did with crop scarcity. Minneapolis spring wheat futures rallies in 2008 and 2017 look similar in shape on a chart, but in 2008 prices peaked at US\$25 per bushel while this present rally has peaked so far a little below \$9.

That \$9 is much closer to the commercial value of hard red spring wheat than \$25.

There has been a great evolution in the crop futures markets since the early 2000s with electronic trading, new pools of commodity-related investment capital and a greatly expanded world capital pool adding dynamic elements to a futures trading system that hadn't changed much before 2000.

That's brought a lot of good for farmers with easier and cheaper ways to use futures markets for their risk management needs.

However, the flood of outside money and the non-crop-related elements of the boom often made crop futures a dangerous tool for farmers and commercial users.

That seems to have changed now.

In the post-boom era, crop markets appear to have settled back into their traditional focus on production and commercial demand. Prices might be lower, but the market provides a price discovery and hedging system that makes a lot more sense for farmers and buyers.

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TRADE

Japan hikes tariffs on beef

BY REUTERS AND WESTERN PRODUCER STAFF

Japan hiked tariffs on frozen beef imports from Canada, the United States and other countries July 28.

The tariff rises to 50 percent from 38.5 percent, until next March, Japan's Ministry of Finance said.

The tariff hike is a "safeguard" mechanism to protect domestic farmers. It is the first time it has been triggered since 2003 when it applied to chilled beef, the farm ministry said.

An increase is automatic if quarterly imports of specific beef products — both from all nations and from those lacking economic part-

nership agreements (EPAs) with Japan — rise more than 17 percent from a year earlier.

In Japan's April-June first fiscal quarter, frozen beef imports from all nations, at 89,253 tonnes, were up 17.1 percent on the year, while imports from non-EPA nations reached 37,823 tonnes, up nearly a quarter.

Nations with EPAs with Japan, such as Australia, Mexico and Chile, escape the tariff hike.

Canada sold C\$45 million of frozen boneless beef in 2016 to Japan and \$16 million of frozen offal and tongues.

Total Canadian beef and veal exports to Japan to May of this year total just over \$60 million, an increase of 24 percent.

CANFAX REPORT

FED CATTLE DOWN

The Canfax weighted average steer price was \$142.47 per hundredweight, down \$1.55, and heifers were \$141.22, down \$1.96.

The price in Alberta was the lowest of the year and was \$5 lower than a year ago.

Dressed cattle were \$236-\$240 per cwt. delivered.

Weaker Chicago futures following the bearish U.S. cattle-on-feed report and the rising Canadian dollar weighed on the market.

Both major Alberta packers were active buyers.

Western Canadian steer carcass weights rose 12 pounds from the previous week and heifers were up 14 lb.

However, steers are still 37 lb. lighter than last year at this time.

Basis was the strongest in several weeks, encouraging feedlots to sell cattle. The Alberta cash to Nebraska cash basis was -\$4.33, compared to -\$5.58 the previous week.

Prices are down about 26 percent from the spring high.

In the United States, fed cattle prices were generally US\$2-\$3 lower on a live basis than last week with most trade in the south at \$117 per cwt.

Dressed trade in the north was mostly \$186-\$188 on a dressed basis.

American feedlots must aggressively sell because market-ready cattle numbers will start increasing this month and will likely increase rapidly in November.

COWS DRIFT LOWER

D1, D2 cows ranged C\$95-\$110 to average \$102, down 29 cents.

D3 cows ranged \$82-\$96 to average \$89.50.

Rail grade cows were \$190-\$195.

Slaughter bulls averaged \$120.06, down 27 cents.

Prices have been down for five weeks.

Non-fed prices normally strengthen into August, but that might not happen this year because the good supply of fed cattle will keep slaughter plants supplied.

Also, the stronger loonie could limit exports.

Dry pastures in southern Saskatchewan and Alberta could bring cattle to market earlier than normal.

Prices could average in the mid to high \$90s by mid-August.

FEEDERS DRIFT LOWER

Alberta feeders are now about par with the U.S. market after having a \$27 per cwt. premium a few weeks ago.

Steers 550 pounds have fallen 18 percent from their highs in early June.

Numbers at market have been light, but there are a few grass yearlings on the cash market in dry areas. This would be about a month earlier than last year, and they are about 50 to 100 lb. lighter.

Look for yearling prices to gain on the calf market, and it would not be out of the question if the spread narrowed to \$20-\$25 for this year.

Cattle priced for early August delivery appear at a premium compared to yearlings priced for late August-early September.

Alberta and Saskatchewan steers weighing 960-1,000 lb. for September delivery traded from \$174-\$179. Using a .1 slide, 850 lb. basis levels are around +\$10, which is historically strong.

Cow-calf pairs traded \$1,700-\$2,800.

U.S. BEEF MIXED

The U.S. Choice cutout fell US\$1.22 to \$206.43, and Selectrose \$1.08 to \$196.66.

Cutouts are likely at the summer low, which might attract some buying and stronger prices into August. As well, buying for Labour Day will soon start. Canadian beef prices were not available.

This cattle market information is selected from the weekly report from Canfax, a division of the Canadian Cattlemen's Association. More market information, analysis and statistics are available by becoming a Canfax subscriber by calling 403-275-5110 or at www.canfax.ca.

WP LIVESTOCK REPORT

HOGS LOWER

The seasonal building of supply weighed down hogs prices. The cash market remains at a premium to the futures.

The U.S. national live price average for barrows and gilts was US\$65.16 per hundredweight July 28, down from \$67.85 July 21. U.S. hogs averaged \$80.98 on a carcass basis July 28, down from \$83.33 July 21. The U.S. pork cutout was \$98.75 per cwt. July 28, down from \$102.78 July 21.

The estimated U.S. weekly slaughter for the week to July 29 was 2.239 million, up from 2.213 million in the previous week.

Slaughter was 2.192 million last year at the same time.

In Canada, the average Signature Five price for the week to July 29 was C\$195.58 per 100 kilograms, down from \$202.47 the previous week.

On a per hundredweight basis the average price was \$88.71, down from \$91.84 the previous week.

BISON STEADY

The Canadian Bison Association said Grade A bulls in the desirable weight range sold at prices up to C\$6.30-\$6.50 per pound hot hanging weight. U.S. buyers are offering US\$4.75 or more with returns dependent on exchange rates, quality and export costs.

Grade A heifers sold up to C\$6-\$6.30 U.S. buyers are offering US\$4.50. Animals outside the desirable buyer specifications may be discounted.

LIGHT LAMBS STRONGER

Ontario Stockyards Inc. reported 846 sheep and lambs and 58

goats sold July 24. Good light lambs sold \$5-7 cwt. higher. Heavy lambs traded steady. Sheep sold \$5-10 cwt. higher. Goats were steady.

Beaver Hill Auction in Tofield, Alta., reported that 714 sheep and 124 goats sold July 24.

Wool lambs lighter than 54 lb. were \$250-295 per cwt., 55-69 lb. were \$255-\$280, 70-85 lb. were \$250-273, 86-105 lb. were \$218-\$254 and 106 lb. and heavier were \$215-\$226.

Wool rams were \$92-\$120 per cwt. Cull ewes were \$90-\$156.

Hair lambs lighter than 54 lb. were \$240-\$260 per cwt., 55-69 lb. were \$245-\$270, 70-85 lb. were \$210-\$235 and 106 lb. and heavier were \$200-\$221.

Hair rams were \$110-\$125 per cwt. Cull ewes were \$85-\$160.

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ITALIAN PASTA

Mandatory labels create inefficiencies bad for all

The arguments behind Italy's move to require country-of-origin labelling for pasta are as limp as over-boiled spaghetti.

The label requirement is a protectionist trade barrier and unwelcome when beneficial global trade is under attack on many fronts.

Canada must respond aggressively against the labels because it hurts Canadian farmers and sets a regressive precedent.

The Italian government, under pressure from its farm community and some consumers, has instituted labelling requirements that force processors to label packages with information about the source of the semolina in pasta.

Pasta processors in Italy say it will increase their capital and administrative costs because they have to add bins to segregate the grain.

It raises the potential that Italian millers will try to pay less for Canadian and other durum grown outside Italy.

This is concerning because Italy is usually one of the top export markets for Canadian durum.

The new labels are a coup for Italian farmers who reject the Canada-European Union Comprehensive Economic and Trade Agreement, fearing it will threaten their livelihoods.

CETA would phase out over seven years European tariffs on Canadian wheat and durum. Until now, the EU has had a variable import levy system on durum, with a maximum duty of 148 euros per tonne, which at current exchange rates is C\$217.

Without this restriction, Italian pasta makers might import even more Canadian durum.

Italian farmers demonstrated near the Italian parliament in Rome early in July, arguing that consumers reject the production practices common in Canada. The farmers' protest did not derail CETA, but

they have had success with the labelling law.

Agriculture Minister Maurizio Martina boasted that Italy was on the forefront of using labelling as a competitive tool.

However, there are good reasons why governments should limit their involvement in labelling to information important for health and safety. Any other use creates false economies, unfair advantages and inefficiencies that hurt us all.

Labelling should be voluntary and left to the marketplace. A processor can accept the cost of a verifiable attribute — say fair trade or locally sourced — and label their product to market it to people willing to pay the extra cost of getting the attribute they desire. Consumers who do not put an extra value on that attribute do not have to buy it.

The costs of voluntary labelling move up to consumers, not down to raw product suppliers. With mandatory labelling, the costs are mostly at the producer and manufacturer level.

That was certainly the case in the United States with its mandatory meat labelling law. Studies by economists at the University of Kansas and University of Missouri using economic modelling showed billions in added costs but almost no change in consumer buying trends.

Italian farmers have never supplied all the country's durum needs. Currently they supply 60 to 70 percent. The imported durum helps the country's world leading pasta export business.

The real effects of mandatory labelling are increased costs for Italian pasta manufacturers, making them less competitive on the international market and putting Italians out of work.

Canada must use every tool at its disposal to show the Italian government the folly of mandatory labels.

Bruce Dyck, Barb Glen, Brian MacLeod, D'Arce McMillan and Michael Raine collaborate in the writing of Western Producer editorials.

CRAIG'S VIEW



MEASURING PAIN IN LIVESTOCK



We have to be a bit careful because it is very tempting to want to put a particular emotion on an animal based on facial features. We may think an animal is experiencing something but we need scientific evidence to really tell those facial expression or heart rate or changes in brain activity. Any of those can give us clues as to how an animal is feeling.

MIRJAM GUESGAN,
RESEARCHER, PAGE 56

INTERNATIONAL RELATIONS

Justin Trudeau: the anti-Trump loved across the globe

CAPITAL LETTERS



KELSEY JOHNSON

The world is in love with Prime Minister Justin Trudeau.

They love his hair. They love his socks. They love his young, picture-perfect family.

They love the fact he's not U.S. President Donald Trump.

The *New York Times'* Nicholas Kristof has named him the leader of the free world. *Rolling Stone* put Trudeau on the cover with a caption, "Why Can't He Be Our President?"

(For the record, only American citizens can run for president.)

Call it Trudeau-mania 2.0. Call it an obsession. Call it whatever you want, the global fawning has put Canada at the heart of international politics.

Nearly two years into his political mandate, Trudeau still draws massive crowds — both at home and abroad.

Call it Trudeau-mania 2.0. Call it an obsession. Call it whatever you want, the global fawning has put Canada at the heart of international politics.

A glance at international headlines would suggest only German Chancellor Angela Merkel and perhaps now French President Emmanuel Macron (who has been trying to brand himself as the French version of Trudeau) have earned equivalent global respect.

Some would argue the world's obsession with Trudeau has been inflated thanks to the ongoing chaos in Washington.

He's the anti-Trump, a young

feminist who loves the Tragically Hip, will gladly march in a Pride parade and constantly espouses the benefits of multiculturalism.

Dairy and softwood lumber aside, Trudeau and his advisers have, for the most part, managed to avoid Trump's wrath.

The American president has said repeatedly he "loves Canada."

U.S. officials have withstood a barrage of visits from Canadian ministers, premiers and officials since Trump's election.

Not one of those visits has been deemed a disaster — a result, it's fair to say, that can't be echoed by other countries such as New Zealand, Australia, Taiwan and Britain, to name a few.

Ottawa has so far been able to contain the American elephant.

For how long remains to be seen.

In the current minefield that is international diplomacy, Trudeau and his team will need to rely on every tool at their disposal in the upcoming renegotiation of the North American Free Trade Agreement.

The world has admired Canada before. It's a respect entrenched in global history.

After all, we were key allies on the beaches and trenches during the First and Second World Wars. Lester B. Pearson won the Nobel Peace Prize for de-escalating the dicey Suez Crisis. It was a Canadian diplomat who drafted the United Nations' Human Rights Declaration.

Canada helped American diplomats escape the Iranian hostage crisis and sent peacekeepers on

missions to countries such as Rwanda, Kosovo and Sierra Leone. It was Canadian soldiers who suffered the highest casualties in Afghanistan.

Canadians invented insulin and the artificial pace maker and discovered a vaccine treatment for Ebola.

History has remembered great leaders not for their looks, but for their actions.

Amidst rising global uncertainty and political instability, the world has decided to lean on Trudeau for direction.

It's a huge responsibility to bear. Here at home, critics have said Trudeau is a man of many ideas who struggles with turning them into practical and useful policies.

How that plays out on the global stage remains to be seen.

Kelsey Johnson is a reporter with iPolitics, www.ipolitics.ca.

& OPEN FORUM



Nearly one million tonnes of straw are burned in Canada every year because recovering the fibre from flax straw isn't economical. | FILE PHOTO

ENVIRONMENT

You shake my breath and rattle my health

BY PHILLIP SCHAEFER

Come the fall, the field will be harvested, your grain will be in the bin, and if you're lucky, everything will quickly be hauled off.

All that will be left on your field is the straw, and if it's a flax field, that straw becomes a real pain next seeding season. It wraps around the seeding equipment until it's so tightly bound you need a serrated blade and two hours of precious seeding time to get it off.

So naturally, farmers have been burning their straw post-harvest for years to avoid this problem.

Driving around in the fall and seeing a flax field with heaps of little flax straw hills is commonplace in rural farming communities. Also common is the burning that follows.

Burning the straw is such an easy

way to eliminate seeding stress that we rarely look at the side effects, such as pollution and adverse environmental effects.

Agricultural scientists legitimized the practice of burning flax straw in the 1950s because recovering the fibre was not worth the trouble. That's because the variety grown on the Canadian Prairies produced stems too rigid for traditional recovery processes.

Today, Canada grows about two million acres of flax and burns nearly one million tonnes of straw annually because it's been an accepted government policy for more than 60 years.

However, we are not living in the 1950s anymore. Technology has increased tremendously to the point where it is possible to retrieve flax oil from the long textile fibre in the stem called the bast fibre by

means of proper organic acid and alkaline treatments.

The debate over whether we should burn flax straw has been kept relatively on the down low with no widespread public attention at all. This needs to change.

I believe there are so many options that can be taken advantage of when it comes to flax straw.

The bast fibre is strong and flexible, and while not as high quality as the fine linen produced in Europe, it could be used in woven textiles and reinforcing other fibres. We can obtain about 20 percent bast fibre yield from the flax straw with the other 80 percent comprising plant matter rich in complex sugars and lignin. This plant matter can be used in renewable energy commodities to replace fossil fuels such as coal.

The Saskatchewan government relies on voluntary action, urging

farmers to "think of your neighbour" before burning flax straw. However, this sort of mentality is not working anymore.

In 2012, the *Globe and Mail* reported that people have become more self-oriented, especially with the increase of large corporate farms having less regard for one of their 200 neighbours.

I firmly support putting in place policies to slowly ban this practice because the alternatives are only increasing year by year, and the smoke truly is detrimental to the environment, no matter what farmers might tell you.

Phillip Schaefer has just completed the third year of an agribusiness degree at the University of Saskatchewan. He grew up on a grain farm southeast of Regina.

NEWS SOURCES

Scary news can come from sketchy sources

EDITORIAL NOTEBOOK



MICHAEL RAINE
MANAGING EDITOR

Food reporting can be tough. The safety of food is very important in our society, and that can be exploited.

In all but a small number of communities across North America, tap water is safe to drink. Even so, we bought \$2.49 billion in bottled water last year in Canada, nearly all of that in places where tap water is safe.

It takes a lot of energy to bottle, haul, refrigerate and process the waste from that consumer habit. On a sustainability scale there is no excuse for it, other than consumer preference and the fact that it is handy.

However, it is marketed on how clean it is, implying that competing products, such as tap water, are something less. People don't always use their logic to make purchases.

We have established safe amounts for most pathogens and chemicals found in our world and set levels that are determined by our own researchers to be safe. You and I employ large teams of great scientists to ensure that those standards are met and maintained.

Then why is it so easy for a very few non-science folks to knock over that applecart? Leverage, that's how.

The media, of which we are a part, call into question many things about our world that are important to all or some of us. They can be used as a tool to create change: some good, some bad. The quality of the tool is what should be important to society.

Cheap tools are dangerous on the farm. Cheap information tools are dangerous to the farm and the global food supply.

Last week, the *New York Times*, hardly a cheap tool, appears to have been used like one in a story about very small amounts of glyphosate in a popular ice cream.

Good scientists have called the story out for its content, provided in the form of a very limited study by a small but determined anti-commercial agriculture group with a catchy name: the Organic Consumers Association.

Like a Ben and Jerry's gourmet ice cream, the story has some good ingredients mixed with a slurry of stuff that some folks will be fond of and others find not to their liking. Generally too much of this isn't good for us.

Overall, a few hours after consuming, most folks will find the *Times* story wasn't good value, not unlike expensive ice cream, and it left a stain.

You can read it online at nyti.ms/2ud3wKz.

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ECONOMY

Drought, loonie major ag issues this summer

HURSH ON AG



KEVIN HURSH

Predicting the future is wrought with pitfalls because you don't know what you don't know. However, a couple of major developments will have wide-ranging impacts across the agriculture sector.

Let's deal first with the increased value of the Canadian dollar.

At 80 cents, it isn't high by historical standards, but it has strengthened dramatically in recent months. Of course, that has the effect of devaluing our exports and thereby our prices for grain, cattle and hogs.

The impact is often overwhelmed by the many other factors at play in

the marketplace, and that's the case now. Weather reports, crop production estimates and even trade irritants are getting a much higher billing by all the market analysts.

The other side of the coin, if you pardon the pun, is the cost of imports. The rise in the Canadian dollar will make U.S. manufactured farm equipment less expensive. The price of new equipment influences the value of used equipment, so the effect is wide ranging.

At least one large Canadian farmer I've talked with anticipated a rise in the Canadian dollar and adjusted equipment acquisition accordingly. When the dollar was at 65 to 70 cents, this producer switched from owning big pieces of equipment to leasing instead.

A large farm can easily have millions of dollars invested in equipment. If the Canadian dollar appreciates by 15 percent and the value of your late model equipment drops by a corresponding amount, it can be a good idea to be leasing

rather than owning.

The other major development and the one everyone is talking about is the widespread drought in combination with a prolonged heat wave.

Prairie crops will range from very bad to very good, but even in the regions with good crops, the heat has probably taken a toll. Crops everywhere may not be as good as they look.

Fewer grain bins and bags will be sold. Unless the weather turns around, grain driers and aeration fans won't be in big demand. As well, there's less need for grain carts when fields aren't going to be wet and soft.

Unlike last year's harvest that continued into the spring, this year's crop might be off early. Unfortunately, there could be more than the usual number of combine and field fires to deal with.

Protein should be above the historical norm in cereal crops. Disease levels in all crops should be

way down compared to last year.

It will be interesting to see how soybeans fare in a year with a very different weather pattern. If soybeans do relatively well compared to other crops, the Saskatchewan acreage has the potential to explode next year.

Hay is short in many southern regions. Producers who stocked up during the wet years will be glad to have some carryover.

With pastures drying up, expect a lot of calves going to market earlier than normal. It's logical to expect feed grain prices to continue edging upward because of reduced supply, and if that happens, feedlots will be trimming their calf bids accordingly.

Weather patterns eventually change and currency values are difficult to forecast, but the impact from what we've experienced this year will be wide-ranging.

Kevin Hursh is an agricultural journalist, consultant and farmer. He can be reached by e-mail at kevin@hursh.ca.



DITCH DUTY | Below average rainfall across much of the Prairies has withered hay crops and encouraged farmers to find feed anywhere they can. Here, Brad Rosin cuts hay from the ditch on Highway 10 east of Yorkton, Sask., July 27. | ROBIN BOOKER PHOTO

TRADE

Farm leaders confident heading into NAFTA talks

BY KAREN BRIERE
REGINA BUREAU

ST. JOHN'S, N.L. — Canadian farmers say their industry appears to be in a good position heading into NAFTA renegotiations even though the United States has targeted dairy, wheat and wine.

The Canadian Federation of Agriculture and the country's agriculture ministers, both in St. John's for summer meetings, heard from federal officials that they still need more details on exactly what the U.S. wants to negotiate during an overhaul of the 23-year-old North American Free Trade Agreement.

But they expressed confidence in

Canadian negotiators.

"The feds are very good at trade negotiations," said Saskatchewan minister Lyle Stewart. "We just urge vigilance and some hard bargaining when it comes to it around the table and we'll continue to work with the federal government on NAFTA, as well as all manner of other trade issues around the world."

Ministers and industry stakeholders attending a roundtable hosted by the CFA heard from Frederic Seppey, Canada's chief agricultural negotiator, that there are time constraints due to 2018 elections in Mexico and the U.S. midterms that will likely move the agenda along quite quickly.

Earlier the U.S. named dairy, wheat grading and wine regulations as concerns.

"There's lots of rhetoric but not a lot of detail at this point," said CFA president Ron Bonnett.

Federal Agriculture Minister Lawrence MacAulay pledged support for all farmers through the talks.

"I'm not the official trade negotiator," he said. "But without a doubt we will make sure that we have capable trade negotiators in agriculture and in the trade department who will handle these issues very capably."

The ministers at their meeting reiterated their support for supply management while working with the federal government on NAFTA modernization and other trade opportunities.

CFA second vice-president Marcel Groleau, a Quebec dairy farmer, said that support seems stronger than ever.

"I think the message to the U.S. negotiator is very clear from Canada, I would say more clear this time than in any other negotiation we have had before," he said.

Groleau said the U.S. knows its issue with surplus milk won't be solved by better access to Canada.

"The U.S. has also its own commodities that they are protecting like sugar and peanuts," he said. "We import in Canada eight percent of our dairy consumption. (The) U.S. imports less than two percent. So our market is not totally closed."

The CFA board met with American Farm Bureau vice-president Scott Vanderwal while in St. John's.

"While there might be a few things we differed on with respect to the negotiation, I think there was a common theme of do no harm," said Bonnett. "Things are actually working pretty good."

CFA executive director Errol Halkett said Canada has balanced trade with the U.S. in its favour; President Donald Trump often complains about trade deficits. U.S. Agriculture Secretary Sonny Perdue is a strong advocate of freer trade, he added.

The first round of negotiations begins Aug. 16.

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POTATOES

Fewer spuds sown in Canada

Seeded area declines but yields are up

BY COMMODITY NEWS SERVICE CANADA

Canadian potato growers planted slightly fewer acres than they did a year ago, according to Statistics Canada.

Nationally, farmers planted 344,884 acres in potatoes, which is down .6 percent from a year ago. It marks the 13th straight year that seeded potato acreage has posted declines nationally.

On the Prairies, 64,500 seeded acres were reported by growers in Manitoba, 53,235 in Alberta and 5,900 in Saskatchewan.

The Manitoba figure represents the latest drop in an overall decline from a peak in 2003, when the province's farmers seeded 103,000 acres.

In Alberta, seeded area grew slightly this year to 53,235 acres compared to 52,300 a year ago. Alberta acreage has remained in the 50,000 to 58,000 acre range, following its peak of 66,000 acres in 2003.

Saskatchewan acres have fallen steadily since that province peaked at 13,500 acres in 2003.

Like Alberta, Ontario also ran contrary to seeding declines elsewhere with 35,400 acres seeded, compared to 34,800 in 2016. Following peak potato acreage in 2003 at 44,900 acres, area in the province has dipped but remains relatively steady in the range of 38,000 to 34,000 acres going back to 1990.

In Quebec, the only other province to post gains, seeded acreage is at 42,749 for this year, compared to 41,761 acres in 2016.

However, potato acreage in that province has slowly slid over the long term from 49,900 acres in 2003 to where it is today.

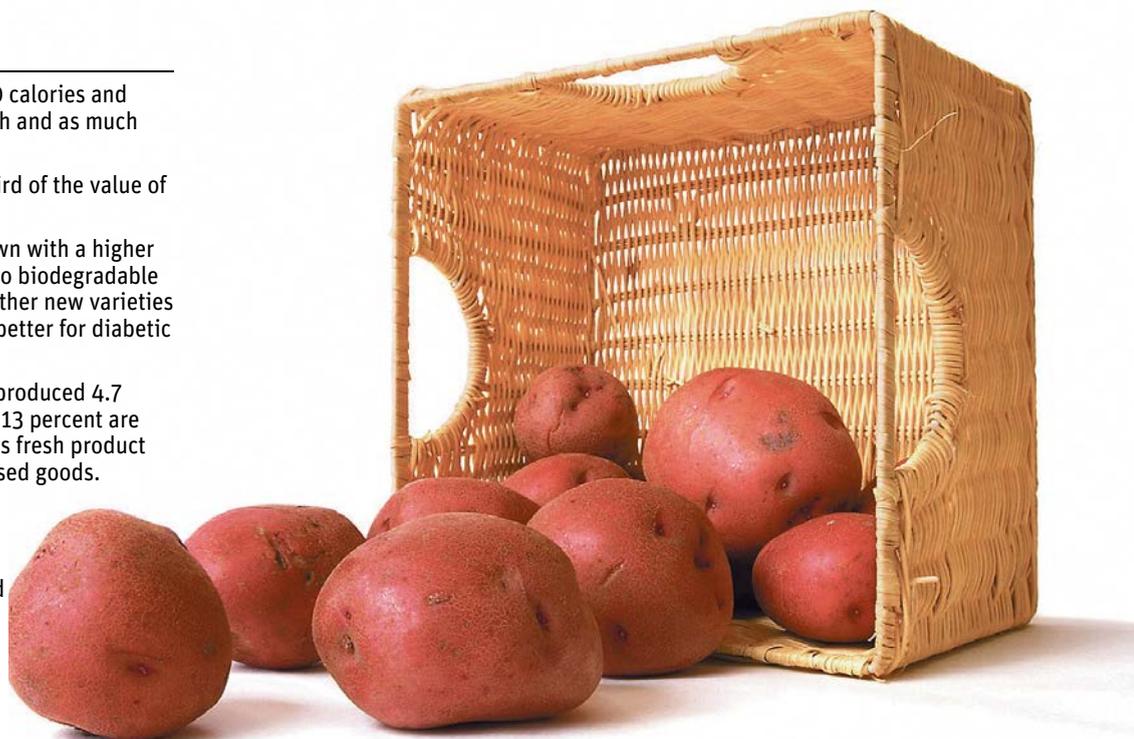
Statistic Canada also reported that:

- Prince Edward Island remains king of potato acres with 88,000 for this year, accounting for 26 percent of national seeded area. Manitoba placed second at 19 percent.
- Canadian growers seeded 346,827 acres in 2016, harvesting 342,409 acres with an average yield of 307.2 hundredweight per acre.
- Growers planted 348,313 acres in 2015, 346,798 acres in 2014 and 356,079 acres in 2013.
- Harvested area has remained more steady than seeded acreage. Potato growers harvested 342,409 acres in 2016, 342,951 acres in 2015, 342,426 acres in 2014 and 351,838 acres in 2013.
- Although seeded acreage has been on the decline and harvested acreage has remained roughly constant, yields have been increasing. In hundred-weight per harvested area, yields came in at 307.2 in 2016, 305.1 in 2015, 293.9 in 2014 and 291.0 in 2013.

DID YOU KNOW

- One potato (with skin) is about 100 calories and has as much iron as a cup of spinach and as much potassium as a banana.
- Canadian potatoes account for a third of the value of the country's vegetable crops.
- New potato varieties are being grown with a higher starch content that can be made into biodegradable plastic garbage bags and cutlery. Other new varieties have a low glycemic index and are better for diabetic diets.
- In 2016, Canadian potato growers produced 4.7 million tonnes of potatoes. Of that, 13 percent are used for seed, 21 percent are sold as fresh product and 66 percent are used for processed goods.
- Canada's Potato Research Centre in Fredericton, N.B., is home to the national potato breeding program and hosts research into disease and plant genetics.

Source: Agriculture Canada | GETTY IMAGE



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SUGAR BEETS

U.S. sugar beet growers may have misjudged market: prof

BY KAREN BRIERE
REGINA BUREAU

MOOSE JAW, Sask. — Hindsight is 20/20, and American sugar beet growers are wondering if they did the right thing when they switched to genetically modified varieties.

Lynn Kennedy, an agricultural economist at Louisiana State University, said beet growers have adopted GM varieties in a dramatic fashion in the last decade.

No GM beets were grown in 2007, but “by 2010, over 95 percent of the United States had gone to genetically modified products,” he told the Farming For Profit conference earlier this year.

“They went all in together and they were ready to sink or swim together. I don’t think they looked ahead and thought this might be a problem.”

That problem, of course, is consumer perception.

Kennedy said growing GM varieties is far more environmentally friendly because of reduced herbicide use and fewer passes through fields.

“When you can’t use Roundup on sugar beets... you have to use a variety of other (herbicides) and you tend to stunt the growth,” he said.

“You don’t have the healthy kind of sugar beet that would yield more in other situations.”

Consumers want greener technology, but some of those same people also don’t want GM crops.

He said GM and non-GM sugar are the same product because the

DNA isn’t passed along to the sucrose left after refining. Genetically modifying a crop involves changing the protein; sucrose doesn’t contain any protein.

However, large candy-makers and other companies are paying as much as three cents a pound less for beet sugar than for cane sugar because they want to place their products in stores such as Whole Foods that cater to those who oppose GM crops.

Kennedy said it’s difficult to debate healthy versus unhealthy sugar, but there are negative repercussions from the beet growers’ decision.

He said one reason for developing a GM crop is to increase yields. He examined sugar yields from 1980 to 2016 and found sugar yields were below 3.5 tonnes per harvested acre in the 30 years before 2010.

“Once GM beets were adopted, it went over four tonnes per acre,” he said.

But then he looked at yield data from the European Union, where GM crops are not grown.

“There’s really been greater gains in the European Union during the same time period,” he said.

Something else is at play, but he said more study is required.

From a food security perspective, he said the acreage used to grow GM sugar beets has declined enough that another 24 million bushels of corn could be produced on the same land. Freeing up land for food production is not a bad thing, he added.

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Genetically modified sugar beet crops use less herbicide and require less soil tillage, but those environmental benefits are still not enough to overcome consumers’ mistrust of GM technology. | FILE PHOTO



Adjustable Swath Rollers & Roto-Shear

Free Form Swath Rollers reduce crop loss by minimizing the effects of wind damage. Available in 3 different models (hydraulic, winch/cable and tow behind) Free Form Swath Rollers are designed to fit all makes and models of swathers. The patented adjustable width roller enables the operator to easily change the roller width forcing the windrow to be “tucked-in” on the ends maximizing resistance to wind gusts. The patented roller is adjustable from 6’ to 10’ to accommodate multiple crop types and varying crop conditions.

Roto-Shear is now owned and manufactured by Free Form Plastics. Roto-Shear owners know that when harvesting lodged or tangled crops like canola and peas, this is an essential piece of equipment that they would never be without again. When time matters most, Roto-Shear has proven itself to be dependable in the toughest harvests, cutting through tangled and lodged crops with speed and efficiency.



FARMLIVING

ON THE FARM

An Ontario dairy producer finds data management and good relationships with experts and staff useful in running his operation. | **Page 16**



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TOURISM

B.C.'s Cowichan Valley becomes tourism spot

BY TAMARA LEIGH
FREELANCE WRITER

DUNCAN, B.C. — Blessed with a Mediterranean climate and entrepreneurial spirit, the Cowichan Valley is taking its place among British Columbia's food capitals, billing itself as Canada's Provence.

An hour north of Victoria, the valley is the sum of a collection of small communities tucked among fertile hills and bays that were known for their abundance well before Europeans settled the region.

"What really makes this place stand out is the diversity of the microclimates and what we produce in a relatively small area," says Janet Docherty, owner of Merridale Ciderworks and president of the Tourism Cowichan Society.

"Wine, cider, spirits, meat, cheese, beer, seaweed, salt, fruit, market vegetables: it's all based on the agriculture."

Merridale makes traditional apple and fruit ciders that are sold throughout Vancouver Island and the Lower Mainland.

It was an early entrant into an industry that has flourished in recent years and has developed its cidery into an agri-tourism destination, complete with a cidery, distillery, bistro and bakery.

The quality of life, local appetite for fine food and tremendous access to inspiring ingredients has attracted chefs, artisanal cheese and charcuterie makers, bakers and sommeliers. All of that fuels the demand for locally grown products.

Tourism Cowichan is focusing its promotion first on people from Victoria and other parts of Vancouver Island and the Lower Mainland and then further afield to Alberta and Washington state, as well as appealing to the epicurean sensibilities of European travellers.

"I see a major connection to Victoria. It's like San Francisco and the Napa Valley," said Docherty, who is expanding Merridale's presence into Victoria in the coming year.

"It's so easy to make it a day trip, a weekend or even a week in the Cowichan Valley."

For many, the Cowichan Valley is a place that people come to push traditions in new and interesting ways. For example, Westholme Tea Farm, Canada's first tea plantation, is developing estate-grown tea offerings that combine the ancient traditions of tea with distinctive local elements.

"I think part of the uniqueness of the Cowichan Valley is that people came here because they wanted to be able to express a certain uniqueness about themselves," said Amy Melmock, economic development manager for the Cowichan Valley Regional District.



Food hubs like the one run by the Cowichan Green Community allow consumers to place orders for locally grown produce online. Produce is delivered to a central collection point, and customers pick up their orders once a week. The system helps farm businesses connect to local consumers. | TAMARA LEIGH PHOTO

FARMER'S MARKETS

Food hub builds community connection for agriculture

Co-operatives connect farmers to consumers and provide reliable access to healthy food

BY TAMARA LEIGH
FREELANCE WRITER

Consumer demand for local food may be growing, but it can be harder than one thinks to connect local farmers with their customers.

Food hubs are one way that communities are helping connect farm businesses to customers and communities to agriculture.

At their most basic, food hubs provide a central point where local farmers can bring their products to market. Depending on the model, they vary from virtual farmers markets to sellers groups.

For the past two years, the Cowichan Green Community (CGC) has run Cow-op.ca, an online market that connects growers in the Cowichan Valley to customers. Farmers list their offerings and prices online every week, and customers submit orders between Friday and Tuesday. Produce is delivered to a central collection point, and customers pick up on Thursday.

"We feel that Cow-op is a great program because you don't have to stand at the market all day," says CGC executive director Judy Stafford.

"You're just going to pick whatever your order is at the end of the week, and that food has already been sold."

Cow-op is a social enterprise run by a co-operative. The board of directors is comprised entirely of the farmers who use the platform. With 30 registered vendors and more than 400 registered buyers, the virtual food hub is approaching a critical breakthrough point, said project manager Heather Kaye.

"I feel like we're almost at that critical mass. All of the grocery stores are offering online ordering now, and people are thinking about buying food differently," she said.

"This addresses the needs of people who want to support local farms but can't make it to the farmers market."

A similar project was started in Lillooet a couple of years ago but

shut down when the co-ordinator moved on. In its place, producers have been organizing themselves in commodity-based sellers groups to share marketing, storage and transportation resources.

A group of garlic growers has developed a brand and hub for their produce, a local ranch and several smaller farms have been collaborating on meat production, and a local winery is organizing the purchase of local grapes and encouraging local growers to collaborate.

"We're ripe to create something that will bring those together," said Jacquie Rasmussen, co-ordinator of the Lillooet Agriculture and Food Society (LAFS).

"An online food hub will be the key organizational feature that will allow local farmers to reach out to customers—to access to chefs and buyers quickly and efficiently."

The society is mandated to implement the Lillooet Area Agriculture Plan. Most recently, it launched the Lillooet Grown brand to start unifying local producers and raising awareness of

what's available in the area. It's all part of building the capacity of local growers to develop and access new markets.

Ordering food online is increasingly common. Most major retailers now offer online ordering, and many offer delivery. For consumers looking to support local growers, regional food hubs connect them with the kind of products that Amazon cannot.

Underlying both CGC and LAFS is a deeper vision than online grocery delivery. Regional food hubs also have an on-the-ground presence in communities and often run food security initiatives and programs for people who don't have reliable access to healthy food.

"Food security is agriculture, and agriculture is food security, but sometimes those conversations don't happen together," said Stafford, whose organization also runs cooking, nutrition and employment skills programs.

"I think this idea of being a hub is where a lot of the conversations need to happen."



LEFT, TOP: William Loewith, 11, and Madeline Loewith, 14, feed calves.

LEFT, BOTTOM: A good relationship with workers is key at Joe Loewith and Sons farm in Lynden, Ont. The farm's mission statement focuses on staff development, animal welfare, product quality, environmental concerns and community support.

NEAR LEFT: Ben Loewith uses fans and an attic to reduce heat in his barn. | BRIAN MACLEOD PHOTOS

ON THE FARM

Success is in the details, says dairy farmer

Good herd management comes from a guiding set of principles and faith in hired workers, says Holstein producer

BY BRIAN MACLEOD
SASKATOON NEWSROOM

LYNDEN, Ont. — Travelling along a rural road near Lynden, Ont. recently, a writer looking for the Joe Loewith and Sons Holsteins farm stops at another farm looking for directions.

He's farther down the road, the woman said before volunteering: "Good farmer."

Indeed, sitting in a room with Ben Loewith, who runs the farm with his father, Carl, and his uncle, Dave, one is surrounded by plaques honouring the farm for many aspects of its operation, including numerous awards for herd management.

Good herd management comes, Loewith said, from meticulous attention to details, dedicated adherence to a guiding set of principles and faith in good farm workers who are offered opportunities to set out their work.

Such focus pays off in results, he said.

"We're in the middle of July; if we can make it to the end of August without losing a calf, then we'll have gone the entire year without losing a calf.... (That) would be a phenomenal goal for us to hit," considering the industry average is almost 10 percent calf mortality younger than two months.

The farm milks 410 cows a day and has about 850 animals, including dry cows and young stock.

There are six full-time staff. Ben's wife, Jennifer Howe, is a television producer, and their children, Madeline, 14, and William, 11, feed the calves on weekends and afterschool.

Despite growing up on the farm,

ON THE FARM



JOE LOEWITH & SONS HOLSTEINS
Lynden, Ont.

Loewith wasn't destined to be a farmer. "I didn't particularly like doing chores in high school," he said. "When I was in high school I told my father that if I end up coming home to the farm, it means a whole lot of things have gone wrong in my life."

But after three years working in management positions near Toronto, he returned to the farm in 1999.

"My father and my uncle were doing a new expansion on the operation ... so I asked them if I could come home for a six month trial period, and if at the end of the six months, if they decided that wasn't working out, I would leave with no questions asked and no hard feelings.

"The six months came and went and nobody seemed to say anything, so as near as I can tell I'm still on probation."

At the front of the barn — built in 2015 to mitigate heat with fans and an attic — is a five-point mission statement that focuses on product quality, animal welfare, staff development, environmental concerns

and community support.

"Seeing that statement — that idea that we're going to meet the needs of the cow every day — (means) animal welfare will be of paramount importance," Loewith said.

"Sometimes, at the end of a difficult 14-hour day, it's easy to convince yourself that this animal, her issues will keep until tomorrow morning when I have a little more help to assist me in dealing with her. For me, that's not a very important day in my life, but for that animal, that's probably the most important day of the year in her life because how I treat that cow and how I interact with that cow is going to impact the next 364 days of her lactation."

To that end, he relies on workers to help with decision-making. "If I can give those people autonomy — whether it's genetics, whether it's cattle sales, whether it's raising calves, whether it's maintenance, whether it's the agronomy on the field — if someone shows a passion for that, I am more than happy to give them autonomy over that area and give them control.

"It's very much a win-win. They feel that they have some control and some autonomy in their job and it takes a whole area of the operation off my plate."

That doesn't mean people operate with isolated responsibilities.

"As much as different people have different areas of expertise that they're in charge of, I still want everybody to be able to do every job on the farm."

And each person must understand why the protocols are in place so they can make better individual choices, Loewith said.

"(For example), we want fresh feed in front of the cows when they come back from the milking parlour, and I want a calf to get her colostrum fed within half an hour. If someone's by themselves working in the barn, there might come a situation where they have to choose between those two things.... If they know why those protocols are in place, then they can make an educated decision on which of those I'm going to choose."

Loewith relies on a good relationship with advisers, including a veterinarian, nutritionist and genetic adviser.

"We take their advice extremely seriously," he said.

"It's too easy to fall into a trap to say, 'well, I understand what you're saying but that's not going to work on our farm for the following reasons.' I think a lot of advisers get incredibly frustrated with their clients because of that."

He also is meticulous with collecting and analyzing data.

"We make an effort to record absolutely everything that happens to every cow," he said. "Then we can go back and analyze that data. If things start to get better, we can say, 'when did things start to get better, what changes did we make that allowed things to get better?'"

Data management also helps with animal health.

"If there's a health issue that's affecting the herd, if I've entered the data... I can break it down to say it's actually not a herd-wide event, it's a subset of my herd that's being affected by this issue and the only way you can analyze that data is if you're religiously recording all

those events and everything that's going on on the farm."

Loewith is prepared when the subject of supply management comes up. Canada's quota system allows producers of dairy, poultry and eggs quotas guaranteed prices. Critics say this is costly to consumers.

"What supply management does is it controls the division of the consumer dollar between the retailer, the processors and the producers," he said. "It redistributes that consumer dollar more equitably."

"People who are calling for a free market in dairy industry, I think they're basing it more on a philosophical economic argument... I think it all boils down to the ideology that an open market is always better for the consumer, and we'll ignore any other factors whatsoever — that if we can get rid of tariffs, if we can get rid of regulation, it will be better for everybody, and I think quite frankly that's a childish way of looking at it."

"I find it shocking that someone can look at that system in the United States or the subsidies in the European Union and say, 'this is what we should be modelling our system after.'"

To help the public understand agriculture, the Loewith farm annually hosts tours, which typically draw about 1,200 people.

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CITY OF CANALS

Venice rich with historic treasures

TALES FROM THE ROAD



ARLENE & ROBIN KARPAN

Europe is chock-a-block with historic towns and cities, but Venice stands in a class by itself. No matter how many photos you see of this famous water-borne city, nothing prepares you for experiencing its stunning setting in person.

Built on a cluster of small marshy islands as a refuge against barbarian invasions, Venice rose over the centuries to become Europe's premier maritime power and key to trade with the Orient.

Its prominence is reflected in some of Italy's most magnificent churches, palaces and works of art. Chief among these is dazzling St. Mark's Basilica, believed to house the bones of the Apostle Mark himself.

Its history dates to the ninth century with about 8,000 sq. metres of mostly gold mosaics and treasures from the Crusades.

Next door is the extravagantly ornate Doge's Palace, seat of power for centuries.

Artwork and lavishly decorated rooms contrast with cramped and dank prison cells, connected by shadowy passageways, and the infamous walkway known as the Bridge of Sighs, where condemned prisoners sighed as they enjoyed their last glimpse of Venice's beauty.

The only way to get around is by foot or boat. Cars, motorcycles or even bicycles are not allowed.

The winding Grand Canal is the main thoroughfare, with a network of smaller canals crisscrossing the islands. You seldom go far without climbing steps on yet another bridge.

Central streets are a mind-boggling maze, with some so narrow

that if you stretch out your arms you can touch buildings on both sides.

Just when you think that you've hit a dead end, a street suddenly opens into a small square, dominated by yet another magnificent church. Simply wandering the ancient streets is an essential part of the experience.

The two main challenges in visiting Venice are contending with crowds and high prices, both of which can be overcome with some planning. This is among Europe's top tourist destinations, so going in mid-summer or during holiday periods such as Carnival, means hordes of people.

Instead, consider March when the weather is cool but still pleasant or hit the most popular spots early or late in the day to avoid tour groups.

Venice has the reputation as one of Europe's more expensive cities, but we found a comfortable guest house on the Grand Canal for 50 euros.

Gondolas cost 80 euros for half an hour and restaurants in the main tourist areas often add extra service charges and cover charges to their already inflated prices. Get slightly off the beaten path, and costs come down to earth.

Fairly close to our hotel was a grocery store with a deli that sold excellent take-out meals for affordable prices.

A museum pass, covering admission to several museums and historic sites, offers good value.

Tourist information offices around town can help you sort through ticket options and combinations. Ask about discounts if you're younger than 26 or older than 65.

The best deals are the day or multi-day passes for unlimited rides on the vaporetti, or water buses, which operate different routes throughout the islands.

While Venice has a few must-see historic sites, there are so many that you can easily get overwhelmed.

We enjoyed simply wandering around, hopping on and off the

water bus that runs the length of the Grand Canal and exploring different areas or heading to some smaller islands.

Arlene and Robin Karpan are well-travelled writers based in Saskatoon.
Contact: travel@producer.com.

LEFT: St. Mark's Basilica dates back to the ninth century. TOP: This is one of many elaborate rooms in the Doge's Palace. ABOVE: A water bus travels the Grand Canal.

| ROBIN AND ARLENE KARPAN PHOTOS

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CURED MEATS

When it's hot, keep cool with cold cuts

TEAM RESOURCES



SARAH GALVIN, BSHEC

Hot summer days call for cold and easy to serve meals. One of my favourites is a charcuterie platter. It was originally intended as a way to preserve meat before refrigeration but today it is prepared for the flavours that come from the preservation process.

A charcuterie platter will have a selection of cured cold meats, pates, hard and soft cheeses and crusty breads.

Serve alongside crispy gherkins, roasted sweet peppers marinated in oil, mustards, dried fruits and tart jellies.

Make your own cured meats for a change from the store bought items.

DUCK PROSCIUTTO

- 1 whole fresh duck breast
- 1 c. gray sea salt or 250 mL kosher salt
- 1/4 tsp. pink salt or salt nitrite 1 mL
- 1/2 tsp. crushed bay leaves 2 mL
- 1/2 tsp. finely ground dried 2 mL thyme
- 4 juniper berries, crushed
- 5 black peppercorns, crushed
- 1 clove garlic, sliced paper thin

Combine bay leaves, thyme, juniper berries and peppercorns in a coffee grinder kept for this purpose. Process for a few seconds. Add to a bowl with pink salt. Rub garlic into the breasts, then rub with the seasoning mixture.

Put breasts in a heavy plastic bag and add enough salt to encase in salt. Refrigerate for 24 hours.

After 24 hours, rinse the breasts under cold running water and pat dry. Wrap in cheesecloth and tie.

Hang the breasts in a cool dry area for one to three weeks or until they feel firm but are not hard. Refrigerate overnight before slicing thinly and serving.

Source: Adapted from *Salumi* by David Ruhlman and Brian Polcyn.

PORK TENDERLOIN PROSCIUTTO

To make the prosciutto, purchase a small pork tenderloin. Lay out a linen or cotton tea towel and generously coat tenderloin with coarse sea salt and herbes de Provence.

Wrap tightly and refrigerate for four or five days. Open the towel and brush off excess curing mixture. Slice thinly to serve.

PATE DE CAMPAGNE

A pate de champagne is a rustic preparation that uses only a small amount of liver. Liver is a seasoning item rather than the dominant flavour.

Some internal garnish such as fresh herbs and chunks of smoked ham or duck confit can be used. The panade helps to retain moisture and enrich and bind the pate.

Most of the meat is ground through a large die, and none of it is



pureed, to achieve the characteristic coarse texture of a country terrine.

Although only a small amount of liver is used, try to use pork rather than chicken liver, because it will allow you to cook the terrine to a lower final temperature and produce a moister pate.

Serve with a baguette and French Dijon. Add a salad of fresh greens for a simple midweek meal. It's also a fabulous make-ahead dish for a weekend dinner party.

Makes 10 to 12 appetizer servings.

- 2 lb. boneless pork 1 kg shoulder butt, cut into 1 inch dice (2.5 cm)
- 4 oz. pork or chicken 115 g liver
- 1/4 c. chopped white 60 mL or yellow onion
- 1/2 c. coarsely chopped 125 mL flat-leaf parsley
- 1 1/2 tbsp. minced garlic 22 mL
- 2 tbsp. kosher salt 30 mL
- 1 tsp. freshly ground 5 mL black pepper
- 1/2 tsp. pate spice 2 mL
- 2 tbsp. all purpose flour 30 mL
- 2 large eggs
- 2 tbsp. brandy 30 mL
- 1/2 c. heavy cream 125 mL

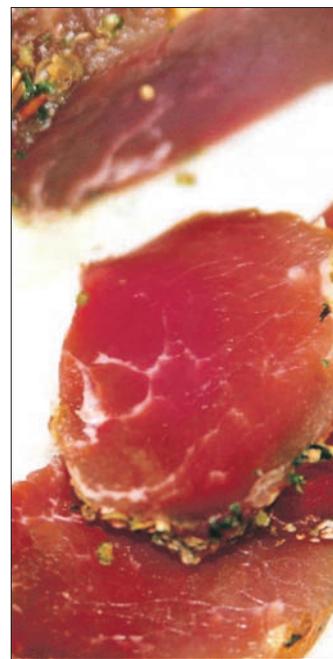
- 1 c. garnish, mix 250 mL and match to taste of diced ham, cooked mushrooms, rinsed brine-cured green peppercorns, duck confit

Freeze all meat grinder blades and bowls before gathering and measuring ingredients. Preheat the oven to 300 F (150 C).

Grind pork through the large die into the bowl of a standing mixer set in ice. Transfer about one-third of the pork to a small bowl and add the liver, onion, parsley, garlic, salt, pepper and pate spice. Fit the grinder with the small die. Clean the blade of any sinew that might be caught there and grind the pork and seasonings mixture into the bowl of coarsely ground pork. Refrigerate.

In a small bowl, combine flour, eggs, brandy and cream and stir to blend. This is the panade. Add it to the ground meat and using the paddle attachment, mix until the panade is incorporated and the mixture becomes sticky, about a minute. You can also do this using a wooden spoon or your hands. Fold in the optional garnish, if using.

To see if the seasoning is the way



LEFT: A charcuterie and cheese platter can be served with marinated vegetable salads.

Serve pork tenderloin prosciutto, above, and duck breast prosciutto, below, with a fresh baguette. | SARAH GALVIN PHOTOS

you like it, make a little ball of meat and drop into boiling water. Cook through, taste and adjust seasonings.

Line a six-cup (1.5 L) terrine mould with plastic wrap, leaving enough overhang on the two long sides to fold over the top of the terrine when it's filled. Moistening the mould first will help the plastic adhere. Fill the mould with pate mixture, packing it down to remove air pockets. Fold plastic wrap over the top, and cover with the lid or with foil.

Place the terrine in a high-sided roasting pan and add enough hot tap water to come halfway up the sides of the mould. Put the pan in the oven and bake until the interior of the pate reaches 150 F (65 C) if using pork liver and 160 F (70 C) if using chicken liver, about one hour.

Remove from the oven, remove the mould from the water bath, and set a weight of about two pounds (1 kg) on top of the terrine. Let cool to room temperature, then refrigerate until completely chilled, overnight, or for up to one week, before serving.

Adapted from *Charcuterie: The Craft of Salting, Smoking, and Curing* by Michael Ruhlman and Brian Polcyn

PATE SPICE

Increase or reduce the amounts of the ingredients to suit your own taste and make your pates distinctly your own.

- 1 tsp. ground cloves 5 mL
- 1 tsp. ground nutmeg 5 mL
- 1 tsp. ground ginger 5 mL
- 1 tsp. ground coriander 5 mL
- 2 tsp. ground cinnamon 10 mL
- 1 tbsp. white pepper 15 mL

Combine ingredients and mix well. Store in an airtight container in a cool, dry place. Makes three tablespoons (45 mL).

Sarah Galvin is a home economist, teacher and farmers' market vendor at Swift Current, Sask., and a member of Team Resources. She writes a blog at allourfingersinthepie.blogspot.ca. Contact: team@producer.com.

SYMPTOMS AND TESTS

Rheumatoid, osteo arthritis are different

HEALTH CLINIC



CLARE ROWSON, MD

Q: I am 65 years old and male. I do heavy outside work and I have pain and swelling in my hands and fingers. Is this osteoarthritis or rheumatoid arthritis. Is there a blood test that can tell the difference between the two types?

A: Rheumatoid arthritis is an autoimmune disease in which the body attacks itself by using its own immune system.

Such an attack on the tissues surrounding a joint will cause fluid to accumulate, which leads to swelling, pain, stiffness and inflammation in the affected area.

Osteoarthritis is the most common form of arthritis. It is a degenerative joint disease caused by a breakdown of the cartilage that acts as a cushion in the joints.

The wearing down of cartilage causes the ends of your bones to rub against each other when you move the affected joint.

Although this situation is usually the result of age or past injuries, new research is beginning to indicate there may also be some type of inflammatory reaction as well.

Both forms of arthritis are more common in women than men and are more likely to be seen in older individuals, although RA can occur in younger people.

RA is also a systemic disease that affects other parts of the body and may be hereditary. It can be diagnosed with the help of blood tests.

OA is more likely to affect larger joints such as knees and hips, but both types can affect the hands.

A useful diagnostic sign that only occurs in people with OA is the presence of Heberden's nodes. They are painful, hard, calcified swellings usually found in the area of the smallest joints at the ends of the fingers or toes.

There is a possible new test for OA as well as RA and other inflammatory joint diseases that could be available to patients within one to two years.

It identifies the chemical signatures found in the plasma of blood joint proteins damaged by natural chemical processes, such as oxidation.

Potential sufferers could be identified at an early stage, before the onset of irreversible physical symptoms.

Warwick Medical School research in England, led by Dr. Naila Rabbani, reports that diagnosing the type of arthritis a patient will develop at an early stage will allow for appropriate treatment and give the patient the best chance for improvement and/or prevention of damage to joints.

Clare Rowson is a retired medical doctor in Belleville, Ont. Contact: health@producer.com.



ED WHITE PHOTOS

BIOSECURITY MEASURES

Uptake of booties on crop tours not urgent — yet

AGRICULTURE



ED WHITE

At a recent field day, I was walking around taking booty pictures.

It struck some people as odd, but I never let that get in the way of important work.

So I walked around the crop plots and if I saw interesting or odd booties, I bent over and documented the many varieties of footwear farm and ag folk tend to wear at crop field days, raising some eyebrows and comments.

There were the clear, thick-plastic booties; there were opaque blue booties; there were short, white, cloth booties.

There were also lots of big rubber boots.

And there were lots of uncovered shoes.

About half the people there early in the day seemed to be wearing booties and I wondered why they were or weren't wearing them.

This was a canola day, so were

people wearing booties to reduce the chance of spreading clubroot? Or was it just so people could keep their shoes and boots clean?

It turned out to be a bit of both. The people from the Canola Council of Canada had apparently been instructed to wear booties for biosecurity reasons.

The council preaches against the dangers of spreading crop diseases, so it looks like they're trying to walk the talk.

A couple of farmers and agronomists were also wearing them to reduce the chance that they'd track clubroot or other diseases to their own or clients' farms.

But others admitted it was just to keep the mud off. Disease wasn't something they were thinking about on this lovely, sunny day.

That's probably a good representation of the approaches to biosecurity followed by crop farmers and aggie-types: some follow a strict policy of booty-wearing; others don't think much about biosecurity but will wear booties if they are handed a pair. Still others don't really worry about it much at all.

Biosecurity culture hasn't really caught on among most crop growers.

I've been on crop tours, stopping along the road to walk into anonymous farmers' fields, and everybody just walks into the crop, not even

thinking about the disease risk.

It's starkly different in the hog industry, which lives inside a culture of high awareness and fear of disease. There aren't many hog farms you can even enter without having to check in at an office, with some hosting gates at the entrance, and almost all with signs announcing biosecurity restrictions for visitors.

Don't expect to be able to get into a barn and look at the pigs, or check out the facilities. Hog farmers know the risks and devastation of disease and do whatever they can to minimize it.

Relaxed crop farming biosafety measures could become standard if diseases get out of control like they did in the hog industry

Barn staff often have to shower-in and shower-out of barns, change their clothing when moving into production areas, and disinfect boots and other items moved from one part of a farm to another.

It makes hog farms an anxious place to visit, and many hog farmers have not seen the inside of another farmer's barns for years. It's just the reality of an industry that is highly aware of the risks of disease.

It's a sad reality, out of keeping

with most farm culture, which values a more relaxed approach to life and work, and the work-life balance. Most farmers don't want to live and work as if they are in the midst of a crime-ridden city, or inside the antiseptic confines of a hospital or laboratory.

A farm is a factory of sorts, but most don't want to live like they're living on a factory floor.

They like being able to blend the casualness of domestic, family life with the demands of work life. It's one of the pleasures of farm life. The family and the business blend together.

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within a farm, by boots or equipment. Right now, many farmers aren't cleaning themselves or their equipment between fields, even though most know it is advised.

For many, with the intense demands of seeding and harvest, stopping to disinfect a giant piece of machinery doesn't seem possible. And changing booties half a dozen times when checking out fields also doesn't seem that doable if there are lots of other things to do that day.

And how about truckers, agronomists and crop tour participants? If they don't bother to be vigilant, a farmer's own biosecurity commitment can fail.

If clubroot or other diseases get out of control, the relaxed crop farming biosafety culture might have to shift, and is already doing so in areas with endemic problems.

Hopefully, it won't have to become as anxious or fearful as it is in the hog industry, where concern hangs over farms like storm clouds about to break.

But the days when crop farms seemed like free and open places, welcoming to the world and happy to host visitors, might fade if things like clubroot get out of control.

And then booties won't seem a curious thing to most farmers. They'll be part of the standard wear of a more anxious farming culture.

MAXIMUM RESIDUE LEVEL

Researcher weighs risks of glyphosate for malt barley dry-down

BY ED WHITE
WINNIPEG BUREAU

It's fine to hit malting barley with glyphosate, at least theoretically.

But the challenge of doing it in the field in true farming conditions was highlighted by long-time barley researcher John O'Donovan at the Canadian Barley Symposium.

"If the farmer does everything right — correct stage, uniform dry-down is achieved — the residue levels will likely not exceed the allowable threshold," said O'Donovan, the Agriculture Canada researcher who opened the symposium June 26.

"Assuming that the grower does everything right ... the greatest risk may lie in non-uniform dry-down."

Using pre-harvest glyphosate on malting barley is a big no-no if the farmer plans to try to sell the crop to a maltster or to anybody else who plans to use it to make malt.

Maltsters and brewers fear glyphosate residue will damage the germination of barley kernels.

"There is not a maltster or brewer in Western Canada that will accept barley that has been treated with pre-harvest glyphosate."



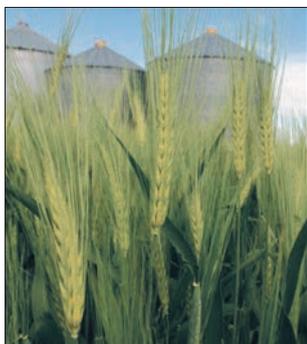
JOHN O'DONOVAN
BARLEY RESEARCHER

O'Donovan said Canadian Grain Commission and other research has shown that it is possible, at least in small-plot research conditions, to apply pre-harvest glyphosate to malting barley and neither exceed maximum residue levels nor damage germination of malting barley.

However, in real farming conditions, that could be hard to achieve because not all parts of a crop can be assumed to have the exact same level of maturity and might not dry down perfectly.

That leaves the possibility of residue and germination problems, even if rates and crops stage have been correct, O'Donovan said.

ed.white@producer.com



There is not a maltster or brewer in Western Canada that will accept barley that has been treated with pre-harvest glyphosate.

JOHN O'DONOVAN
AGRICULTURE CANADA

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MISSED HIS MARK



Troy Pollitt of Bentley, Alta., is in for a rough landing as he missed the steer during the steer wrestling event at the annual 112 Dog Pound Stampede, held July 19 near Cochrane, Alta. | PATRICK PRICE PHOTO

HOG DISEASE

War room security measures required to keep PED out

Every time you open the barn door you open up to disease, warns expert

BY ED WHITE
WINNIPEG BUREAU

Hog farmers must act like they're at war when PED arrives in their area.

That was the advice of Manitoba Agriculture veterinary specialist Glen Duizer while hosting a meeting via conference call for worried Alberta hog farmers July 19.

The sort of biosecurity measures that have been working during "peacetime" conditions should be replaced by a "wartime" setting if a farmer ends up with neighbours infected with porcine epidemic diarrhea virus.

"Every time you open a door, back up a truck and move pigs from one barn to another, each one of those events (creates a chance for PED to spread)," said Duizer, outlining many ways farmers can boost their farm's biosecurity.

Waiting for proof that the disease has entered the farm is waiting too long.

"You will not be able to pick the (signs of the) disease up fast enough before the disease has spread to another site."

Duizer said farmers in Alberta and the rest of the Prairies need to be mentally prepared if PED shows up, even though it has not yet moved out of southeastern Manitoba.

That involves going beyond regular biosecurity, including:

- Closing doors to loading docks and other entrances when possible because the disease can probably spread through wind-borne dust.
- More intensively control inter-



Hog producers were told to change footwear and clothing between facilities and disinfect vehicles of which they are unsure. | GETTY PHOTO

barn contamination by having more footwear and clothing changes between different parts of the farm.

- Don't share staff between different facilities on weekends or other times when fewer workers are available.
- Keep facilities within infected zones segregated from ones outside the zones, even if your facilities are not (as far as you know) infected.
- Ensure that service, feed and transportation providers are operating dedicated systems, rather than mixing vehicles that service infected and uninfected farms.

Duizer said the disease can spread by dust and other environmental agents, but that doesn't mean it can't be controlled through biosecurity.

"Throwing up our hands and saying there's nothing we can do about mice, about birds, about wind, about weather and so on, I would

say there is something we probably can do," said Duizer.

"If you are in the middle of an outbreak it is essential that you consider having those plans in place to deal with that kind of biosecurity opportunity."

Companies that work with hog farmers also need to be prepared for a PED outbreak, he said.

For instance, having dedicated trucking for infected and uninfected facilities is an important biosecurity measure, but it requires lots of planning and dedication.

"Capacity can be overwhelmed very quickly," said Duizer.

Having to clean, disinfect, bake and inspect each truck after each load is "very taxing," but it removes 99 percent of the risk.

More than 80 percent of the farmers on the conference call said they had increased biosecurity since the PED outbreak in Manitoba began.

ed.white@producer.com

THIRDS

RAIN KEPT YOU DOWN IN JUNE, BUT NOW IT'S OPEN SEASON ON THISTLE. HOPE IT HAD A NICE SUMMER, BECAUSE IN THREE DAYS, YOU'LL BE SWATHING AND IT'LL BE TAKING A DIRT NAP.

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PRODUCTION

INTERNET OF THINGS

Precision Matters: The internet includes things such as the worldwide web, email and file transfer protocol. Most people don't realize that the web is only one part of the internet. | **Page 24**



PRODUCTION EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MICHAEL.RAINE@PRODUCER.COM



TAPPS puts up to three products down at high pressure into a very narrow slit in the soil. They can be used to feed winter cereals in the spring with little or no damage or cut through stubble in the fall. | EXACTRIX PHOTOS

FERTILIZER

Make nitrogen more efficient

Injection rig blends NH₃ with liquid to net an extra US\$60 per acre

BY RON LYSSENG
WINNIPEG BUREAU

LANGHAM, Sask. —American corn growers are realizing a one-third increase in nitrogen efficiency by using the Exactrix TAPPS application system.

TAPPS technology injects NH₃ along with a liquid fertilizer blend, creating a soil environment that reduces nitrogen loss, Exactrix agronomist Guy Swanson said.

"In dryland scenarios, the grower nets about 60 more (US) dollars per acre. In irrigated high-yield production, the grower gets about 150 more net dollars per acre," Swanson said.

"TAPPS makes the nitrogen about 166 percent more crop useable. The processor injects anhydrous ammonia in a very high pressure streaming flow. It's not necessarily a method for cutting rates. It's more a matter of using the same nitrogen to grow more crop.

"It's the highest form of crop-available nitrogen on the planet. It's ammonium and that's what the plants want. It's injected so uniformly that we don't have hotspots."

Swanson said NH₃ is always looking for water because water is hydrogen and NH₃ loves hydrogen. With a high pH of nearly 14, anhydrous ammonia is very alka-



TOP: TAPPS puts up to three products down at high pressure into a very narrow slit in the soil.

ABOVE: The disc cuts up to eight inches.

line and reacts quickly with the acidic poly phosphate. This is known as an acid-based reaction.

"There's a big temperature swing because you're splitting up the water that's in the poly-phosphate. There's plenty of hydrogen in the poly-phosphate. That splitting converts NH₃ into NH₄.

"And there's sulfur in there, too, in the form of ammonium thio-sulphate. It's critical in stabilizing the band. It makes the band non-attract-

tive to nitrous amines and nitro bacteria. The word 'thio' means toxic to plant life. You cannot apply thio-sulphate directly to a plant. You'll burn the leaves and you'll kill the germination of the plant.

"So, down in this deep band the nitrous amines and nitro bacteria cannot proliferate. It takes a good deal of time for the pH to come down and for any oxidation to occur. That time delay is key to fall banding. It slows down the process so the nitrous amines and nitro bacteria don't feed well. So it's really a nitrogen stabilizer."

Swanson said a primitive form of the practice was used in the 1960s and 1970s in winter wheat. Producers used straight ammonia with nitrosol liquid fertilizer added to the ammonia tank. This recipe stabilized the ammonia so that it could be applied in the fall. Exactrix simply took that basic concept and refined it to the point that it has evolved into the safe and highly predictable TAPPS practice in use today, he added.

The Crop Production Services outlet at Sexsmith, Alta., just purchased its own TAPPS rig, and had it on display at the Ag in Motion show near Saskatoon a couple of weeks ago.

CPS agronomist Blaine Richter said he visited U.S. growers who

have been using the technology for years before deciding to invest in the system.

"Corn growers are applying under .6 pounds of N per bushel. They're getting 300 bu. per acre in irrigated corn with this remarkable nitrogen efficiency," he said.

"The typical ratio has always been one pound nitrogen to grow one bu. of corn. Now they're cutting that down to .6 pounds nitrogen. They're saving a remarkable amount of money because the nitrogen is stabilized. Nitrogen loss is a major issue in areas like the Nebraska with their sandy soils.

"Operational efficiencies save them even more money. They're able to put all their fertilizer down in one trip over the field. Now they can eliminate that spring application of 400 lb. of dry fertilizer. They can apply fertilizer all the way through November just about every year."

For all the apparent benefits of TAPPS, Richter said CPS still views the Alberta purchase as a pilot project. The one machine it commissioned will cover as many acres as possible in the Sexsmith area this fall. He will then assess the viability of the unit, particularly in canola.

CONTINUED ON NEXT PAGE >>

FERTILIZER

Nitrogen injector lives up to the hype

BY RON LYSSENG
WINNIPEG BUREAU

Marty Jespersen has used an Exactrix TAPPS NH₃ injection system on his Taber, Alta., farm for the past seven years and says it's well worth the extra investment.

Jespersen bought the TAPPS kit from Exactrix and fabricated the rest of the machine himself, eventually ending up with a triple injection system to handle anhydrous, adenosine triphosphate (ATP) and humic acid.

He said the performance claims from Exactrix are not exaggerated. He has realized a significant savings by reducing the amount of NH₃ he applies.

"I now apply about 70 percent of the nitrogen I would have applied if I didn't use the system (TAPPS) because the nitrogen is more plant-available," said Jespersen.

"In my original system, I just put down straight anhydrous ammonia, then I'd apply 11-52 in the spring. But now I put my sulfur and phosphate and micronutrients down at the same time with my anhydrous."

Jespersen said humic acid is a carbon compound, so it makes for easier uptake by the plant. He said it creates a big difference in canola. He puts zinc on as a seed treatment because of the risks in mixing it with other chemicals.

"Most of these products we're mixing don't like each other. You have to be really careful or else you'll be shovelling it out with a boat paddle like we had to do one time. The mixture turned to something like Jello. There was probably about 200 gallons of Jello. I think it was the humic acid that caused that incident.

"We put all the fertilizer down in the fall. TAPPS really likes snow. Snow cover really mellows the ground. When you're double shooting or triple shooting, you can go a little earlier than the snowfall if you want because there's no gassing off into the atmosphere. The ammonia is bonded right to the liquid fertilizer.

CONTINUED ON NEXT PAGE >>

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FERTILIZER

Turn on the TAPPS for better nitrogen efficiency

Band NH3 along with liquid phosphorous and sulfur

BY RON LYSENG
WINNIPEG BUREAU

LANGHAM, Sask. — Farmers at the recent Ag in Motion show who want to optimize nitrogen uptake were drawn to the rubber-track trailer bearing a pair of 1,200 gallon liquid tanks flanked by a pair of 2,000 gallon anhydrous ammonia tanks.

The big rig was the brainchild of Crop Production Services in Sexsmith, Alta., according to fabricator David Paulson, owner of Wadena Steel. AIM was the first public showing of the TF4024 project.

“Once we get the Exactrix pumps installed at the back, we’ll be producing what they call TAPPS fertilizer,” said Paulson of Wadena, Sask.

“TAPPS is tri-ammonium polyphosphate sulfate. The sulfate and phosphate are in the two liquid tanks, and of course nitrogen in the anhydrous tanks. The idea is that it stabilizes your nitrogen. This is fairly new in Canada. There’s a guy in Alberta who’s been doing it for a few years, but this is my first opportunity to build a machine like this.

“The tracks are from Soucy, with duals in front. They’re calculated to carry the weight of 30,000 pounds empty and 80,000 lb. full, about the same weight as a semi. There’s no brakes on the machine. To build another unit, I figure it would sell for about \$260,000 with the Exactrix equipment.”

Blaine Richter, a CPS agronomist in Sexsmith, Alta., said nitrogen likes to run away, particularly in the



A TAPPS cart from CPS got farmers attention at the AIM farm show in Langham, Sask. Made by Wadena Steel, the unit weighs up to 80,000 pounds when loaded. | RON LYSENG PHOTO

WHAT IS TAPPS?

TAPPS is created by using ammonium poly phosphate 10-34-0 (APP) blended with ammonium thiosulphate 12-0-0-26 (ATS). Nitrogen, phosphorus and sulfate are banded together in the soil to create TAPPS. Ammoniated zinc may be added.

nitrate format.

“The goal of this TAPPS custom application project is to bring stabilized nitrogen to producers in the Peace River in a more affordable format,” he said.

“It’s a well-known fact that if you mix bio-salt liquid sulfur with ammonia, you get a stabilized band that lasts as long as eight weeks. We’re such a heavy canola region, so we’re already applying 15 pounds sulfur per acre per year anyway. So we’re killing two birds with one stone.

“Then we also mix in liquid phosphorous. That’s 10-34-0 ammonium poly phosphate (APP) to bring all our fertility into a single pass. All this goes down in the fall, so the grower doesn’t need to think about fertilizer applications in the spring.”

Exactrix supplied the pump, meter and application tools. The mix will enter the soil through P51 Mustang CUE openers on 24-inch centres. CPS chose P51 high speed discs because a secondary goal of the project is to make the machine snow-proof. Richter said CPS wants the ability to band fertilizer in all weather conditions. Even in snow, the fertilizer band goes all the way down to the targeted seven-inch depth.

“We’ll be able to work right up until December without experiencing the classic frozen football or mud-ball buildup,” he said.

“We typically get snow before the ground freezes. This really opens up our window for fall application. With the Mustang discs, this machine can work in two feet of snow.

“It’ll roll through six inches of snow with pure mud underneath. The discs never ball up. We can apply fertilizer in places where you can’t drive a pickup in the field. That’s why we have tracks on the cart and we’ll be using a quad-type four-track tractor to pull it.”

NH3 always likes to be friendly with H2O, but Richter said that’s not a big factor in the TAPPS strategy. It takes very little water to convert ammonia to ammonium, he added.

Richter said uniformity is a major part of the scheme. Conventional pressure drop injection systems drip ammonia in the ground. They dribble the fertilizer into the trench. Liquid systems have the same drawback he added.

“The TAPPS system squirts fertilizer in behind the disc through a .038 inch orifice at 200 p.s.i.,” he said.

“The orifices are underground just behind the disc, and they squirt at an angle at the thinnest part of the disc. It actually mixes in a very small ribbon. The pump itself operates anywhere from 150 p.s.i. to 300 p.s.i. Once you get above 100 p.s.i., the function of the pressure doesn’t change much. Above that, you have all the flow you really need.”

Guy Swanson, the agronomist at Exactrix who led development of TAPPS, said in a telephone interview that the liquid poly phosphate up at the manifold starts at about 300 p.s.i., but it’s much lower when

it goes through the injector so it doesn’t splatter.

“There’s a partial vacuum created behind the disc. We drive in the liquid poly phosphate first, before the NH3. The liquid is sucked in by the vacuum,” he said.

“Next, the ammonia comes shooting into that liquid at high pressure, usually up to 300 p.s.i. It’s moving at 80 or 90 m.p.h. and it’s hungry for hydrogen. It finds the poly phosphate and makes the reaction. And that’s the point at which it crystallizes and becomes stable.

“All this is happening at a recommended ground speed of about eight m.p.h. It works at speeds down to four m.p.h., but not as well. And it works up to 12 m.p.h. in the field. The disc needs forward momentum to create the vacuum.”

The Sexsmith project will tie onto a 61 foot Case 940 Nutri-Placer. Richter said the Mustang discs have such low-disturbance that growers also use the rig to apply anhydrous ammonia in winter wheat in the spring, in which case the machine is run at an angle across the rows.

“It’s a very flexible system that accounts for rate, ground speed and orifice size,” he said. “It’s controlled by our echelon variable rate system, which lets us vary rates of N, P and S independent of each other.”

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MAKE NITROGEN MORE EFFICIENT

» CONTINUED FROM PREVIOUS PAGE

“With TAPPS, we hope to improve canola stand establishment. We believe that will be the case. Poor canola stands are more susceptible to damage from flea beetles and other problems, plus hybrid seed is expensive. You want the healthiest stand possible.

“If you can get all your fertilizer down in the fall, that means you can park the air drill and seed canola with a planter, and that has all kinds of proven benefits. The cost of TAPPS is mitigated by the benefits.”

Swanson said the banding tool bar

and Mustang P51 discs are exclusive Exactrix products, as are the unique TAPPS formulators. Contrary to what people think, the system is not just for corn growers.

“All crops are really the same when it comes to the need for N, P, K, S and micronutrients. It’s just the quantity and timing that’s different,” he said.

“US\$60 net in dryland and US\$150 net under irrigation — that’s about the same numbers whether we’re talking corn, wheat or cotton.”

ron.lyseng@producer.com

NITROGEN INJECTOR LIVES UP TO THE HYPE

» CONTINUED FROM PREVIOUS PAGE

You might get a very small hint of anhydrous in the cab if you have a tail wind and really high rates like 150 or 180 pounds.”

Jespersion’s equipment lets him do variable rate with nitrogen and phosphorus independent of each other. His system pressures run between 150 and 200 p.s.i., which is high enough that he still has not experienced a freeze-up in the seven years with the system. The system represented a big invest-

ment, he said, but it pays for itself immediately.

“We did an 80-acre side-by-side trial with my Hutterite neighbours,” he said.

“They used their normal urea fertility program, and I used my TAPPS program. We ended up with a four bushel advantage over the urea system. So at \$5 a bushel, that’s a benefit of \$20 per acre. I think that machine pays for itself pretty quickly.”

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TECHNOLOGY

Internet of Things promises to revolutionize farming

PRECISION HAPPENS



TERRY A. BRASE

Sometimes I wonder how the media comes up with these new terms.

For example, the first time I heard the word “cover” used to refer to an old song redone by a different artist, I was confused. We used to call it a “remake,” which I think is very descriptive. I don’t get how the term “cover” can be used as a verb

or noun to describe a redone song. One of the latest examples is “disruptive,” which means “shaking it up.” However, the word also has a negative connotation to it, such as breaking or turning over.

I can maybe see how a few technologies could be considered disruptive, but come on, a new type smartphone is “disruptive?”

The term is very much overused and seems to be applied to any new technology.

A previous technology buzzword, “enabling,” is much more positive and descriptive of a new technology’s impact on the industry to which it is applied.

Another buzzword that gets used a lot these days is “internet of things,” also shortened to IoT.

When I first heard this phrase, I thought it was like the first two examples: a word used mainly for its value to differentiate and create a buzz.

However, as it turns out, it is actually a very appropriate term and is used properly.

The internet is a massive computer network that includes things such as the worldwide web, email and file transfer protocol. Most people don’t realize that the web is only one part of the internet.

Computers and servers all over the world use various lines, cables, routers, modems and access points to allow people to connect to the web, which allows people to share information, demonstrate concepts and show other people their

ideas using websites.

Email allows people to send messages through the internet and communicate.

FTP allows people to send files to other people through the internet. We could actually call the internet more properly the “Internet of People.”

Internet of Things allows all parts of the system to communicate with each other

So what is the Internet of Things? The same massive computer network that is used for websites and replying to email is now also being used by sensors, controllers and

other “things.”

There are people setting this all up and people are also part of the network, but the function is to let the “things” communicate with each other.

A relatively simple example is a wireless sensor/control irrigation network that is being set up at West Hills College in the Farm of the Future’s pistachio orchard.

A variety of sensors will be placed throughout the orchard, including soil moisture, salinity, trunk diameter, sap flow, irrigation flow rate, and waterline pressure.

These sensors are connected through a wired connection to a node substation, which collects information from each of the sensors. A radio transmitter sends all of the sensor data to a mother node, which is also collecting data from other node substations.

The mother node includes a cellular internet gateway, which is a device that has the ability to open up the internet and serve information through the cellular network system.

If you have a smartphone or tablet that can access a cellular signal and has a data plan associated with it, you have access to the data on that mother node.

West Hills’ system will move the data through the cellular network to a third party website. This will allow any computer that has wi-fi or the internet’s websites to access these “things.”

There are also control things in the pistachio orchard. They are mounted to a set of valves and use the same network, but instead of sending out data, they are waiting for data. When a data signal comes in, it will adjust the valves to control the amount of water being applied to the trees.

A good part of the system is that it allows people to view and communicate with the things out in the field. Our farm technician is already looking forward to using the systems to check pressures instead of making a 10 p.m. or 5 a.m. check on the system.

The best part of the system is that it allows the things to communicate with each other. Yes, people can see what is going on, but with the website and proper programming, people don’t have to be involved.

It is possible for the sensors to collect the data, the software to process the information to form a solution and communicate the solution to the controllers, and the controllers to make the adjustments to the valves.

This is basically a closed loop system that is feeding data to itself and making corrections. It is still dependent on humans setting it up correctly, but it has the potential to save water while making sure irrigation needs are being met.

Adding a couple of sensors to the power supply and well pump provides more information that could also help with pump efficiency and save on energy.

The Internet of Things is making the Farm of the Future a buzzing community of things that make precision happen.

Terry A. Brase is an agriculture consultant, precision agriculture educator and author. BrASE LLC. Contact him at precision.happens@producer.com

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CROP REPORT

ALL CONDITIONS AS OF JULY 28. VISIT WWW.PRODUCER.COM REGULARLY FOR UPDATED CROP REPORTS

MANITOBA

SOUTHWEST

- Precipitation varied significantly from two to 80 millimetres. As well, there were heavy wind and hail in some areas, which caused lodging.
- Disease pressure is low in canola, and spring cereals are turning fast because of hot, humid weather conditions.
- Good quality hay is being put up with average yields.

NORTHWEST

- Rainfall ranged from 12 to 70 mm, and high temperatures were reported, which improved plant growth.
- First cut tame forage harvest is nearing completion, while native hay harvest is underway and dairy second cut is approaching completion.
- Soil moisture is adequate.

CENTRAL

- Precipitation varied from trace amounts to 40 mm along with hail damage and strong winds, which felled mature trees and lodged crops.
- Insect activity and disease presence generally remain low in crops, but lygus and grasshopper activity was found in some fields.
- Good haying progress is being made with average to below average yields.

EASTERN

- Rainfall ranged from five to 45 mm with high winds, but there were no reports of crop damage.
- Soil moisture conditions on cropland and hayland are rated 80 percent adequate.
- Fungicide and herbicide applications are mostly complete.

INTERLAKE

- Precipitation varied from three to 38 mm.
- Soil moisture conditions in cropland, hayland and pastures are rated 95 percent adequate
- Second growth alfalfa is good.

SASKATCHEWAN

SOUTHEAST

- Precipitation varied from trace amounts to 23 mm, and many areas have received only 50 to 75 mm since April 1.
- Topsoil moisture conditions on



The evening of July 13 proved to be a good time to cut hay on the Cuthbert family farm near Hughenden, Alta. | STERLING CUTHBERT PHOTO

cropland is rated 21 percent adequate, 50 percent short and 29 percent very short, while hayland and pastures are 19 percent adequate, 43 percent short and 38 percent very short.

- Harvest of winter cereals and pulses has begun and yields are significantly lower than normal.

SOUTHWEST

- Rainfall range from very little to 14 mm along with high temperatures.

- Topsoil moisture conditions on cropland, hayland and pastures have an average rating of seven percent adequate, 37 percent short and 57 percent very short.

- Winter cereals and pulses are being harvested in some areas.

EAST-CENTRAL

- Precipitation varied from small amounts to 64 mm.

- Topsoil moisture conditions on cropland are rated 44 percent adequate, 35 percent short and 18 percent very short, while hayland and pastures are 34 percent adequate, 46 percent short and 19 percent very short.

- About 76 percent of the hay crop is baled or put into silage and quality is rated 67 percent good.

WEST-CENTRAL

- Rainfall ranged from trace amounts to 69 mm along with hot temperatures.

- Topsoil moisture conditions on cropland are rated 33 percent adequate, 55 percent short and 12 percent very short, while hayland and pastures are 33 percent adequate, 42 percent short and 25 percent very short.

- About 80 percent of the hay crop is baled or put into silage with quality rated 62 percent good.

NORTHEAST

- Precipitation varied from small amounts to 80 mm with damaging hail, strong winds and localized flooding.
- Topsoil moisture conditions on

cropland, hayland and pasture have an average rating of 21 percent surplus, 68 percent adequate, nine percent short and two percent very short.

- About 55 percent of the hay crop is baled or put into silage.

NORTHWEST

- Rainfall ranged from trace amounts to 98 mm along with strong winds and hail that damaged and lodged crops.

- Topsoil moisture conditions on cropland, hayland and pasture have an average rating of 16 percent surplus, 67 percent adequate and 17 percent short.

- About 52 percent of the hay crop is baled or put into silage.

ALBERTA

SOUTH

- Harvest operations have started on winter cereals, field peas and barley, while crops continue to be under stress because of high temperatures and lack of precipitation.

- Crop condition ratings continue falling with the biggest declines in oats, barley and canola. Preliminary dryland yield estimates are down 15 to 20 percentage points from 2016.

- About 87 percent of first cut dryland hay is good or excellent.

CENTRAL

- The area received light showers, but dry conditions are intensifying and crop condition ratings declined seven to eight points.

- Spring cereals are in late pollination, winter cereals are in the early dough stage, 45 percent of canola is flowering and 55 percent is podding.

- Surface soil moisture conditions are rated 52 percent good or excellent, and subsoil moisture is 55 percent good or excellent.

NORTHEAST

- Precipitation was 40 to 150 mm, and 34 percent of the region is

rated excessive for moisture.

- Spring wheat is averaging mid pollination and barley and oats are in late head emergence, while 55 percent of canola is flowering and 45 percent is podding.

- Surface and subsurface soil moisture conditions are rated about 58 percent good or excellent and 34 percent excessive.

NORTHWEST

- Rainfall ranged from 40 to 150 mm, and 32 percent of the region is rated excessive for moisture.

- Cereal crops are in early pollination, while 78 percent of canola is flowering and 22 percent is podding.

- Surface soil moisture is rated 52 percent good or excellent and 32 percent excessive.

PEACE

- Precipitation varied from 35 to 60 mm along with hail across much of the region.

- Cereals are in early pollination, while 83 percent of canola is flowering and 17 percent is podding.

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Gord Androsoff, PAg
Owner/Operator
Trembling Aspen Consulting
Research Program Manager
Western Grains Research Foundation

Gord works as an independent consultant and at Western Grains Research Foundation (WGRF). As WGRF is a farmer-directed organization, he works to invest farmer-funds in agriculture research that best benefit producers.

As an independent consultant, Gord also works with mining companies to ensure proper completion of land restoration projects.

"The professional agrologist (PAg) designation provides clients with confidence I'm qualified and trained to perform my work with a high level of professionalism and ability."

Gord was raised on a mixed farm in Blaine Lake, SK. He received a BSc in Biology, a BSA in Agriculture and an MSc in Soil Science from the University of Saskatchewan. Gord began his consulting business in 2010 and joined WGRF in 2017.



Jackie Medvid, AAT
Sales Representative
Richardson Pioneer
Foam Lake, SK

Jackie provides advice and services to growers throughout the year to ensure farming operations are profitable. She offers services such as, variety selection, fertility planning, field scouting, and crop protection product decisions.

"Being an Agricultural Technologist (AAT) gives my customers confidence that I follow professional standards, maintain up-to-date knowledge, and continue learning from other Professional Agrologists, which in turn aids in customer success."

Jackie was raised on a mixed farm near Sheho, SK. She received a Diploma in Agribusiness from the University of Saskatchewan. Jackie was previously employed with the Saskatchewan 4-H Council.

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Hot, dry weather across much of Western Canada has changed the economic threshold to use pesticides. That's bad news for aerial spraying operators, whose inventory is sitting idle. | FILE PHOTO

WEATHER

Crop sprayers grounded in Western Canada

Dry weather changes pesticide thresholds

BY PHIL FRANZ-WARKENTIN
COMMODITY NEWS SERVICE CANADA

Aerial crop sprayers are spending more time on the ground than in the air in Western Canada this season, with hot, dry weather limiting disease pressures and changing the economic threshold for insect

applications.

"The crops came out of the ground very aggressively and good, but there was a prolonged hot spell without any precipitation and most growers second-guessed themselves on the benefits of a fungicide application," said Colin Bevan of Air Spray in Kindersley, Sask., and president of the Saskatchewan Aerial Applicators Association.

"Basically, the industry has fallen flat throughout most of the prairie provinces," said Bevan, noting that his own company would have usually covered 100,000 acres by this time of year, but had only done 10,000.

Bevan said insect pressure could still necessitate spraying, but with the hot, dry conditions and lower yield expectations, "the economic threshold changes for insect applications and it will take a pretty significant infestation of bugs before (farmers) find it financially advantageous to make an application."

After a busy 2016 that saw heavy disease pressure across much of the Prairies, many air applicators made substantial asset acquisitions.

"... and there will be some financial disparity for sure," said Bevan.

"Not only is it a drier year, there was also a big increase of equipment brought in," said Dave Frisch of Jonair Ltd. and president of the Manitoba Aerial Applicators Association.

He said that means there are more aerial applicators around now and the limited dollars must be spread among more providers.

He said given the costs of buying an aircraft, an aerial sprayer who received no work would almost certainly face financial questions.

Bevan said in the past, many farmers paid to have small numbers of acres sprayed by air just to keep aerial operators in business so they would be around when farmers needed them in future years.

"But society doesn't work on those principles anymore."

As a result, he said, "there will probably be some failures, and when the crop producers need those applicators they will have shot themselves in the foot."

While aerial applicators may be grounded right now, Bevan said desiccating canola aerially has also taken off in recent years. Those jobs could provide salvation for some operators, if they happen.

As well, potato fields in Manitoba are consistently sprayed, which limits the downturn in aerial applications in that province compared to elsewhere on the Prairies, said Frisch.



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AG NOTES

ANIMAL HEALTH AWARD

Crystal Mackay, president of the Canadian Centre for Food Integrity, was recently presented with the Canadian Animal Health Institute Industry Leadership Award.

The award recognizes outstanding leadership, innovation and accomplishments in Canadian animal health.

Mackay has led many initiatives including the Farm & Food Care and the new Canadian Centre for Food Integrity, which have helped provide the communication tools and build public trust about agriculture.

She has also helped change the language used to speak about animal health and welfare practices into terms more easily understood by the public.

AGRICULTURAL REVIEW TRIBUNAL APPOINTMENT

Luc Bélanger has been appointed chair of the Canada Agricultural Review Tribunal for a five-year term effective July 17.

Members of the Canada Agricultural Review Tribunal are appointed by the federal government.

Bélanger has experience working in the legal field and a strong interest in agriculture.

The tribunal provides impartial reviews of notices of violation issued by federal agencies regulating agriculture and food.

SASK. STUDENTS WIN LIVESTOCK BURSARIES

Dayne Whelan of Grandora, Sask., and Keisha Senum of Spiritwood, Sask., are the recipients of bursaries offered by the Livestock Marketers of Saskatchewan and the Saskatchewan Cattlemen's Association.

The \$1,500 bursaries are offered to Saskatchewan high school students entering an agriculture program at a Canadian institution this year.

The recipients were selected based on academic standards, leadership in their communities and a demonstrated interest in the cattle sector.

The Beef is Your Future Bursary program project is organized by the two associations to promote careers in the cattle sector to interested university and high school students in the province.

Other activities included information sessions and a scholarship at the University of Saskatchewan, a lecture series in the university's agriculture college and the development of a career profile website at beefcareers.ca.

For more information, visit livestockmarketers.ca.

CSTA APPOINTS NEW EXECUTIVE DIRECTOR

Dave Carey is the new executive director of the Canadian Seed Trade Association.

Carey, the organization's outgoing director of government affairs and policy, joined CSTA in 2012 and has worked in roles of increasing management responsibility. More recently, he acted as the lead staff member following the departure of former executive director Crosby Davit.

Carey had previously worked as a legislative assistant for MPs from Alberta and Ontario. He is described as an experienced government relations leader with an in-depth understanding of government and regulatory affairs, policy development and international trade priorities.



THIS WILLIE IS NOT WEE

Wild West Willie enjoys a scratch and oat snack from owner Doug Rogers on Rogers' farm near Bentley, Alta. Willie, 15, is an Angus Holstein cross Brahma who stands 17 hands high and weighs 2,600 pounds. In his heyday, Willie, saddled and ridden by Rogers, walked a dozen or more parades each summer, including the Calgary Stampede, the Tournament of Roses in Pasadena, California, and the non-motorized parades at the Pendleton Round-Up in Oregon and Wagon Days at Sun Valley, Idaho. Willie is now slowing down and generally does a half dozen parades a summer. | MARIA JOHNSON PHOTO

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AFTER THE FARM FINANCIAL PLANNING

A SPECIAL FEATURE OF THE WESTERN PRODUCER | E-MAIL: NEWSROOM@PRODUCER.COM | 306-665-3544 | EDITOR: BRIAN MACLEOD



Incorporating your farm could cut your tax rate by 75 percent. This strategy is likely the largest tax saving opportunity available to farmers that is most often overlooked. Unsure how to do it? Talk to a financial planner. | GETTY IMAGE

Farming, taxes and retirement

If you're thinking of retirement and need to sort out taxes, experts advise to start now — and use a pro

BY SHIRLEY BYERS
FREELANCE WRITER

Taxation often makes up the largest expense and accounts for the largest loss of wealth in the lives of many farm families, particularly during retirement years, says Donavon Tofin, a tax specialist with Retiring Farmers in Saskatoon.

Over a farming career that spans two, three or more decades, farmers defer income into the latter years. Inventories build up. There are significant investments in equipment and buildings that are depreciated and often livestock, he says.

"There's a huge amount of income that's been deferred and typically, when you sell you have to consider the income and the tax in one year."

"But," he continues, "there are various ways of managing that and bringing that tax bill down. It's not to say you can in all cases eliminate taxation, but you can certainly significantly minimize it in this situation."

Capital gains exemption

An individual who owns farm property (land or buildings), an interest in a family farm partnership or shares in a family farm corporation may be able to claim a \$1 million lifetime capital gains exemption (LCGE) when the farm property is sold. The actual capital gains deduction is 50 percent of the capital gains exemption.

Qualified farm property of an individual, (that is, farm property that

qualifies for the LCGE) includes property owned by the individual, his/her spouse or common-law partner. It can also include an interest in a family farm partnership of the individual, his/her spouse or common-law partner.

Qualified farm property is real or immovable property, such as land or buildings, that was used to carry on a farming business in Canada by the individual, a spouse or common-law partner, parent or child of that individual, a family farm corporation where any of the persons referred to above owns shares in the corporation, or an interest in a family farm partnership of an individual referred to in any of the above.

Partnerships

Livestock or grain inventory is not qualified farm property and can't be rolled over to heirs like land or a building can, says Tofin.

"You can't get it to the next generation without paying tax on it."

Say, for example, that a farmer has \$100,000 worth of cattle that he/she wants to give to the children as a gift. The farmer will still have to include that \$100,000 in his or her income and pay tax on it.

"So, create a partnership," he says.

If a partnership is created between parents, that property can be rolled over and there are procedures that can be followed to avoid tax on that \$100,000. Then the parents' interest in that partnership can go to the farming

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child as a qualified farm property. You are rolling over the partnership interest that includes the value of the inventory.

"You can't pass the cattle directly to the farming child but you could form a partnership and transfer them to the farming child. The partnership holds the inventory."

Corporations

Incorporating the farm could bring the tax rate down from 48 percent to 12 percent, says Tofin. "A farmer may incorporate for no other reason than to liquidate the farm."

This strategy is likely the largest tax saving opportunity available to farmers that is most often overlooked.

Using the previous example of a herd of cows, the cattle could be

rolled into a farm corporation well ahead of retirement. The land would be kept separate and rented to the farm corporation.

At retirement the farmer, if he/she continues to personally own the land, could sell the cattle now in the corporation. The income from the sale of the cattle would be taxed at a much lower rate than if the farmer had continued to hold them in a sole proprietorship or partnership.

Holding companies

Creating a holding company could be another strategy to ease the tax pain. As the name implies, a holding company exists to hold funds apart from the operating corporation.

Monies can be transferred from the

farm corporation on a tax-free basis. A holding corporation can pay dividends and wages. It can make loans to its shareholders. Making non-farming children shareholders of a holding company will allow them to receive dividends.

At the same time, transferring funds to a holding company can reduce passive assets in the farm corporation, which must keep cash holdings at less than 10 percent of the value of the assets, to ensure capital gains exemptions and roll-over provisions can still be used.

Tax-Free Savings Accounts

A tax-free savings account can be started with as little as \$100 at any financial institution. Funds can be withdrawn at any time and unlike RRSPs there is no requirement to collapse your TFSA at a set age. Contributions are not tax deductible but funds withdrawn are tax-free, even upon the death of the account holder.

Note though, as of Jan. 1, 2016, the annual TFSA contribution limit decreased from \$10,000 to \$5,500.

"People, ideally, should start planning their exit from farming a minimum of two to five years ahead of time," says Tofin.

"You must engage someone experienced in both of these areas — tax laws and agriculture. This is essential.

"What I would do is ask the adviser, financial adviser, lawyer or accountant ... 'how much of your workday is spent on farming issues, not preparing tax returns and financial statements, but on this specific area of farm retirement?'"

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RETIREMENT PLANNING

What does your future look like?

If you're getting ready to retire, visualize what you want your life to look like — and figure out how much it will cost

BY SHIRLEY BYERS
FREELANCE WRITER

To plan for retirement, it's a good idea to think about what you want your retirement to look like. With a clear picture in mind, you can then set goals and figure out what needs to be done to reach those goals.

Tim Eggers, field agricultural economist at Iowa State University, has designed a model called Retirement Planning for farm families by which farmers can do just that. The following exercise is part of a course designed by Eggers and colleagues and used in several states.

Step 1: To begin to visualize what retirement will be look like, Eggers advises farmers to first draw a picture of their retirement fantasy. The limitations of geography,

health and finances will come into this but not just yet. For now, just let go and make a sketch of what you want to be doing in retirement.

Step 2: Take another blank sheet of paper and write the words that would describe that dream retirement. In another column — maybe divide the paper in half down the middle — write the words you do not want to be used to describe your retirement.

Some people view retirement as a time of opportunity; for others, it's a time of fear and uncertainty. This exercise will help you see the positive and negative expectations you have about that phase of life.

For example, words such as freedom, options and relaxation might be used to describe an ideal retirement, while words such as restrictions, stress and ill health describe

a less than ideal one.

Step 3: Write a paragraph about the things you want to do or perform in retirement. Some of these may have shown up in the picture you drew in Step 1. Do you see yourself travelling? Spending more time with the grandkids? Is it time to finally take those university classes? To write that novel?

Step 4: Write a paragraph about the things you want to be or exist as in retirement. Maybe different roles you would like to assume in community or faith organizations? You'll have more time now; is this a time to provide leadership to groups you felt you were unable to provide when you were a full-time and lots-of-overtime farmer? Is it time to say yes to serving on a board or committee?

Step 5: Write a paragraph about

the things you want to have, possess, own or hold in retirement. Are there things on your wish list? Things you feel you're been working to acquire. Alternatively, are there intangible things, like recognition in a community that you want to have in retirement?

Step 6: The fourth paragraph is for the things you want to contribute, give or help to bring about in retirement. These may be financial or time-related. They could be political or social change related.

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Examples might include setting aside money or land for a charity or cause, donating several hours a week to helping others or campaigning/lobbying for a political party or cause or spending more time with your grandkids.

"The four paragraphs above can help to provide the positive expectations regarding the retirement phase of an individual's life," Eggers writes.

Now, let's get practical. With picture and paragraphs at hand, outline the things you need to be doing now to make your dreams a reality.

What do you think you want to do? What do you need to do? What will it cost and what additional money will be required?

When doing this exercise, says Egger, many older farmers realize there are farm tasks they don't enjoy doing that others might. Others

might decide it's time to take a break from some of the decision making.

He suggests farmers ask themselves, "what am I wanting to accomplish in five, 10, 15 years?"

Make a budget, including estimated living expenses, travel costs and supplemental insurance.

But what about the farmer who goes through the exercises, sees what he/she wants to do and wonders if there's enough money?

"In a face-to-face setting, the starting point for this is the timeline," he says. "It starts with the current year and then we go off to some age that seems sort of silly. Sometimes folks approach estate planning like they're immortal."

That's when it's time to look at life expectancy tables. See how many years you're expected to live. Now mark that on a timeline.

Putting an expected date of death on a timeline does seem pretty harsh, he concedes, "but it sort of

pushes it back to what do I do now? More elderly people in a group setting might advise younger seniors to not put off travel. Do it now. Don't wait until you're in your 70s and 80s."

And remember, it's your retirement. "My colleague says when it comes to transition planning activities, you have to remember the golden rule: he who has the gold makes the rules, reminding some participants that as the people in the decision process they're really the drivers of it. It may be that this younger person wants to come in and do things but they are the ones providing or not providing access."

This visualization exercise is part of a larger 15-hour program. Canadians who don't have access to the program can still benefit from the exercise by visiting bit.ly/2uBHXPV.

Assuming there is also a spouse in the picture, print off a couple of copies of the exercise.

Work on it separately and then come together and see how your papers compare. In some couples, one party thinks retirement goes one direction, the other thinks it goes in a different direction. Doing the exercise separately and then comparing results can help couples learn more about each other.



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AG CENSUS

Lost generation of farmers becomes apparent

SASKATOON NEWSROOM

Farmers are older than they once were. It's an obvious point, but in this case it appears, from the data, that the lost generations of prairie farms are starting to turn up missing from the middle years.

The Canadian Census of Agriculture data for 2016 shows producers older than 55 are growing in numbers, while those between 35 and 55 are falling fast. There is, for the first time in a long while, an uptick in growers younger than 35.

The 35 to 55 group dropped by about 25 percent since the last tally in 2011.

In Manitoba, farmers older than 55 increased by 3.2 percent, from 10,165 to 10,495, while the 35 to 55 group dropped 26.7 percent, from 10,190 to 7,470. Farmers younger than 35 grew 10.7 percent, but in absolute terms only 210 new ones were minted.

Next door in Saskatchewan, 50 new, young farmers were added, but more than 5,000 younger, middle-aged operators either moved into a higher age bracket or quit farming, dropping from 20,700 in 2011. The older than 55 crowd grew about four percent to 32,535, adding 935 producers to its ranks.

In Alberta, 360 younger farmers were added since 2011, but 6,565 were lost from the 35 to 55 group or became part of the older bunch. Producers older than 55 grew six percent, by 1,750 to 32,535.

In British Columbia, older farmers dropped by 735, about 4.5 percent, while the 35 to 55 group fell 24.5 percent with younger farmers the only growth area, adding 205, up 12 percent.

Total farmers for the West saw Manitoba with 20,140, Saskatchewan with 45,350, Alberta with 57,600 and B.C with 26,425. Not all of these are commercial-scale growers with only 33,265 producers having gross receipts of more than \$250,000.

RETIREMENT PLANNING

Couple make plans for life after farming

BY SHIRLEY BYERS
FREELANCE WRITER

Bill and Gale Stonehouse have spent a lot of time lately planning an auction sale.

It's a big step. They've been farming since they were teenagers. Bill was 17 and Gale 18 when they married in 1970 and made their home on the Cut Knife, Sask.-area homestead that his grandfather had established in 1912 and that his mother had farmed since Bill's father was killed in a farm accident in 1964.

Over the years, the farm increased from the original homestead to six quarter sections devoted to grain with two more sections plus lease land for pasturing a mostly Hereford herd, but later crossed with Simmental.

Bill and Gale got out of cattle in 1980 to free up time to chauffeur their three boys to hockey and to devote more time to their family business — an on-farm butcher shop.

"We had three children, three boys," says Bill. "They all worked in the butcher shop and on the farm. They started with a few pigs they would feed and eventually butcher and get the money for them."

Their oldest son, Lorin, had graduated from high school and was working in Alberta when he suddenly died.

Glen, their second son, lived in Switzerland for about six months after high school, then came home to farm with his dad. Their third son, Daryl, took a job with Saskatchewan Wheat Pool after high school and now works for Crop Production Services in Maidstone, Sask. The Stonehouses feel blessed that all of their remaining children and their families live within easy driving distance.

In 2009, Glen wanted to make the farm bigger. "I was kind of at the point where I didn't want to go that route," Bill explains. Glen went on his own for a few years farming a combination of his own and rented land. Bill farmed for another four years and then the day of decision came.

"I was doing more than I wanted to do. We couldn't find help. I had a fellow working for me who was a real good worker. He said one day that he'd need more money or he'd have to quit. I said, 'then how about you quit and I will too?'"

"That year I grew the best crop I'd ever grown in my whole life. And I thought ... I'd seen my father-in-

law struggle in farming after he got older.... I'd seen some other farmers struggling when they got too old to be good at it any more. I thought, why not quit when I had a great year, instead of quitting when I'm forced to?"

Easing into retirement

At that time, Glen bought some of the land and took over farming all of it, renting what he hadn't purchased. Bill continued working part time, breaking up pastureland. It was a way of keeping busy without the stress of farming.

"I did that on my own time ... not like seeding or harvest when you have to have it done by this date or that date," he says.

An older friend, in his mid-70s, worked with Bill on that project. Each year as another chunk of land fell under the plow, his son would add it to the grain farm, and the next year Bill and his friend would take on another chunk.

This went on for four years, at which time the friend was getting tired and Bill was ready for a change too.

"After a while, it was cutting into my away time to come home (from

the lake) and do this breaking so at that point, we decided we'd have an auction sale and that's where we're at now.

"It's kind of a tough thing to take and sell what you got

"There are memories attached to them and some things you think are real good and you wonder what will happen at an auction sale.

"And just the idea of getting everything ready; I'm not having a real good time with that part but I guess it will be over in the middle of July and it'll come to an end."

Glen will continue to rent that land that Bill and Gale have

retained, and he will gradually take the entire farm over.

"If it comes to the point that they no longer want to rent it, then if they don't buy it, I guess we will sell it, and we will hope we have enough money to live on."

How much is enough? Bill wonders.

"I saw my mother retire with what was a fair amount of money in 1980 or whatever and live for 25 years with that fair amount of money and it turned into not much. It's hard to know how long you're going to live

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I'd seen my father-in-law struggle in farming after he got older.... I'd seen some other farmers struggling when they got too old to be good at it any more. I thought, why not quit when I had a great year, instead of quitting when I'm forced to?

BILL STONEHOUSE
CUT KNIFE FARMER



Cut Knife farmers Bill and Gale Stonehouse made the decision to retire from their farming operation and take up some new activities — hunting and fishing for Bill, walking and crafting for Gale. | SHIRLEY BYERS PHOTO

» CONTINUED FROM PREVIOUS PAGE

and it's hard to know what stuff's going to cost in 15 years. I don't think any of us thought 20 years ago you'd pay \$50,000 for a car or truck, but that's what you pay."

The Stonehouses decided to consult with a financial adviser recommended by their accountant and feel that was a good decision. They say he reassured them and gave advice to make the decision easier.

Retirement for two

As for retirement, Bill says he's ready. He's thinking of going back to hunting and trapping, activities he enjoyed as a youngster but put aside as he took on adult responsibilities.

Last year Bill and Gale built a cabin at Healy Lake, Alaska, about 1,000 kilometres northwest of Meadow Lake, Sask. Gale doesn't hunt or fish but she enjoys the quiet of the cabin and they've both taken up cross country skiing again.

"There's no money in trapping. I'd just like to kind of learn how to do it, live in the north a little, do more fishing," says Bill.

"As much as anything, it's wandering around in the North, almost like being a kid again."

Eleven years ago, Gale and Bill moved six miles down the road and Glen and his family moved into their house. Gale struggled with the changes the move brought about.

Bill was at the farm every day, working. "I moved here and there was nobody. I was used to having my son's family in the same yard. And with the butcher shop we were sort of the local coffee shop."

But the butcher shop was closed. It had got to be too much when the kids wanted to start farming. She had actually looked forward to the reduced socializing.

"But when there was just me, I missed them."

To fill her time, she started educating herself and discovered that she loved learning. Five years after her son, Lorin, died, she became a paramedic and later as she developed mobility issues, branched off into critical incident training, teaching first aid and training to help people cope with loss.

Knowing that fresh air and exercise is invaluable to self-care, she constructed walking trails of one mile and one-half mile around the farmyard and turned a big, old, red hip-roofed barn on the property into a creative expression place — a place where people learn self care while fostering creativity.

Creating amazing works of art is not what it's about, she explains; it's about allowing your natural creativity, that you had as a child to come alive again.

Art supplies provided in the loft classroom help to facilitate this process. "Let the emotion come through your hands. Even drawing lines is helpful for calming your mind," she says.

"After my son died by suicide it was a very big struggle and I couldn't wrap my head around it," she says.

"There was shame and guilt and everything else associated with that... I've come to terms with that. I have walked that path. I had to learn the hard way, and it is something I can give to others. There isn't a lot of help for people in that area. That's what I plan to do with my retirement — just to be a resource for people who find themselves struggling."

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GOLDEN YEARS

U.K.'s first slaughter-free dairy farm gets home

BY CHRIS MCCULLOUGH
FREELANCE WRITER

A dairy farm in the United Kingdom where older cows can spend their retirement has moved to a permanent home.

The farm called Ahimsa Dairy was previously on rented land in Leicestershire but it is moving to property it recently bought in Rutland.

Cows on the Ahimsa farm are not slaughtered; instead, they are allowed to retire. All the male calves are put to work rather than being sold for meat.

Ahimsa Dairy operates on traditional methods, milking the cows by hand and allowing offspring to graze with the cows every day.

The Ahimsa Dairy Foundation was founded in 2011 and originally produced milk in partnership with an organic farm in Kent.

The organization was inspired by the farm at Bhaktivedanta Manor in Hertfordshire, U.K., which is run by the Hare Krishna movement, after it was donated by Beatles musician George Harrison.

Once the cows' milk-producing days ended, they would be sent to the Ahimsa farm in Leicestershire.

Now, the 30 cows at Ahimsa farm



Ahimsa Dairy will be moving to Manton, where it will produce 23,000 litres of milk annually. When cows' milk producing days are over, they spend their days in the sunshine. | CHRIS MCCULLOUGH PHOTO

have a new home in Manton where the milk production will be based.

Nicola Pazdzierska from Ahimsa said many people were willing to pay more for their milk given the status of the farm.

"We charge a lot more for the

product but part of that money is going into our cows' pension fund, and at the same time, we don't think milk should be a cheap product," she said.

"In London a pint of craft beer can sell for £6.20 (C\$10.30), so we don't

think it's unsustainable for our milk to sell for £4.50 (C\$7.50) a litre at a farmers' market, or £3.50 (C\$5.80) for members. We want to make the model replicable so other farms can follow."

The farm plans to produce its own

cheese and create a visitor centre.

It owns 48 acres near the village of Wing and rents another 24 acres.

The Ahimsa Dairy Foundation is a not-for-profit company and produces 23,000 litres of milk a year.

DAIRY FARMERS OF CANADA

Dairy sector feels safe

Supply management confident of government support

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — Dairy Farmers of Canada remains confident it has continuing support for supply management.

"The strategy is to continue to be agile and build trust and good relationships with government. We do have that," said government relations director Isabelle Bouchard.

"The prime minister has been very supportive of our industry," she said at the organization's annual meeting held in Edmonton July 18-19.

"It is not going to be a walk in the park and I am not saying nothing will happen to us, but Canadians are aware of us and the good quality milk you are providing, so that can help us have a minimal impact on our industry," she said.

The organization has been working with government on a strategy as the North American Free Trade Agreement is renegotiated, and a social media campaign was launched to tell Canadians how the system works.

NAFTA negotiations are scheduled to start the third week of August with a ministerial meeting followed by meetings at the senior official level, said Yves Leduc, director of policy and trade with DFC.

The United States released its negotiating objectives, but these were fairly broad.

"There was no mention of dairy," he said. "However, if you read in between the lines, you can see some of these broader objectives with some of the demands by the

U.S. dairy sector. The U.S. dairy lobby has been very aggressive with a long list of demands."

The Canada-European Union Comprehensive Economic and Trade Agreement signing is tentatively scheduled for Sept. 21, and information on cheese quotas should be known by the end of August. The dairy transition program is supposed to be announced after the allocation, he said.

The World Trade Organization is meeting at the ministerial level in December, where negotiators hope to reach an agreement on domestic support.

DFC is also paying attention to the committee on agriculture because the U.S., Australia and New Zealand are challenging Canadian dairy policy.

"They are very aggressive, so we continue to closely monitor the situation," he said.

Outgoing president Wally Smith believes the dairy industry will continue to thrive, and various new agreements have left it relatively unscathed.

"TPP was a victory for sure, and CETA was satisfactory. In terms of the impact of trade negotiations, we left Canadian farmers in very good shape," he said in an interview before turning over the reins to new president Pierre Lampron.

He believes Canadians support the domestic industry.

"There is a lot of trust in the producers and how Canadian milk is produced on the farm. There is never any question of the integrity of the product," he said.

barbara.duckworth@producer.com

DAIRY FARMERS OF CANADA

Canadian dairy organization joins international sustainability group

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — Dairy Farmers of Canada has joined a group of countries in signing the Rotterdam Declaration, an international statement on sustainability.

Initiated by the International Dairy Federation, the position paper was released last year during its annual meeting in the Netherlands. The federation has 45 member countries.

"Our vision is to help to nourish the world with safe and sustainable dairy products," said Judith Bryans, president of the federation and chief executive officer of

Dairy U.K. based in London.

The organization promotes the dairy industry, encourages good animal welfare, responsible antimicrobial use, sound environmental care and the nutritional value of dairy products.

Tout benefits

"The opportunity and challenge is we have to feed a growing population with a limited resource," Bryans said at the Dairy Farmers of Canada annual meeting in Edmonton held July 18-19.

"There are a lot of dairy detractors and we have to constantly talk about our nutritional benefits.

"Nutrition isn't about having the best to keep you healthy. It is about not killing yourself with a fork. That's what it is for regulators anyway."

The United Nations has challenged governments to control climate change and set targets to protect the environment. Dairy must be part of that, she said.

The UN's Food and Agriculture Organization and China, Denmark, the Netherlands, Japan, South Korea, United Kingdom, Israel and France have also signed the declaration, which may be seen at www.dairydeclaration.org.

barbara.duckworth@producer.com

DAIRY FARMERS OF CANADA

Campaign touts milk benefits to physicians

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — Dairy farmers are working harder to remind Canadians that milk is still part of a healthy diet.

Besides an active media campaign, representatives from Dairy Farmers of Canada are hoping to visit 20,000 Canadian physicians to improve their attitudes toward dairy products and no longer discourage consumption among patients.

They usually get no more than five minutes of a family physicians' time to deliver the message about dairy consumption, but

they hope to reach 20,000 by 2020 with three visits each. So far about 7,500 have been contacted.

"We know it is having an impact because we have feedback from the reps that are visiting the physicians," said dietitian Isabelle Neiderer of Dairy Farmers of Canada.

"There is a much higher percentage of physicians who are now favourable toward milk products." A new nutrition campaign to be launched in September promotes the benefits of milk to encourage adults to increase their consumption of milk to keep them strong.

"The health benefits most susceptible to today's consumers is about building repairing bones,

muscle and body tissue," she said at the organization's annual meeting held in Edmonton July 18-19.

"More and more being strong is considered a key element in a healthy, active lifestyle. It is an important trend that has come up in recent years."

They are targeting men and women in the 24 to 54 age group and realize people are busy and may have a different perception about what strength means.

For many, being strong means getting more things done so they have enough energy left to get more out of life, said Neiderer.

barbara.duckworth@producer.com

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1962 MASSEY 410 combine, new firt tires, cab, AC, radio, enclosed hopper ext., new paint. Serious collector or small farmer. 204-248-2040, 9 -10:30 PM, Rathwell, MB.

WANTED: VOLKSWAGON AIR cooled motor used in small research plot combines; Also wanted 1960-1965 VW bug. 306-549-4073, Hafford, SK.

FOR PARTS ONLY! 2 Massey Ferguson Super 92 combines. Call for information. 403-318-8135, Delburne, AB.

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MOTOR PARTS: MH55 & 555: 1 crankshaft, 1 cylinder sleeve, 2 pistons, 1 motor block. Good cond. 403-556-2703, 403-586-2703, Olds, AB. Meldoddill@gmail.com

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1965 GALAXY 500 LTD, 4 dr. hardtop, body damage in back, 352 eng., trans. 100 miles since OH, vg; 2- 1966 Mercury 4 dr. black sedans, sliding back windows, 390 eng., auto., red interior, PS, power brakes. 204-248-2040, 9 -10:30 PM, Rathwell, MB.

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AUCTION SALES 0900

PATSY SALISBURY & ESTATE of Daniel Salisbury Farm Auction, Jedburgh, SK. Sunday August 13, 2017, 10:00 AM. Directions: from Jedburgh, 1/2 mile west, 6 miles south, west on Hwy #52 for 5 miles, 1 mile north. Contact: 306-782-3727 or 306-620-6276. **Tractors:** CIH 1070 w/Al-lid 2000 FEL; CIH 930, square fender, dsl.; JD 4320, cab, quad range; CIH 1030, square fender, dsl.; CIH 900, hand clutch; CIH 4490 4WD, needs repairs; CIH 2470, yellow w/mounted forklift. **Haying & Cattle Equipment:** NH 1492 PTO discbine; Hesston & NH round balers; Stock trailers; Haybuster bale wagon; Silage equipment. **Combines:** JD 7720 Hydro SP; JD 7701, PTO. Grain trucks, trucks, cars, tillage, drills, swathers, augers, harrows, and more. **Rec & Yard:** 2012 Arctic Cat Prowler side-by-side. Shop & misc. tools & more! **Note:** There is an assortment of livestock equipment and other misc. equipment for sale. PL #915851. For updated listings and pictures, visit www.ukrainetauction.com

ONLINE AUCTION: "Ready, Aim, Consign" Monthly Firearms Sale. Bids close August 31st, 203-60th Street East, Saskatoon. Call Derek 306-227-5940. www.McDougallAuction.com PL #33187.

ANNUAL PRE-HARVEST AUCTION, Tuesday August 08, 8:00 AM, Hwy #3 east Tisdale, SK. 306-873-5488 or go to website for up to date listings!

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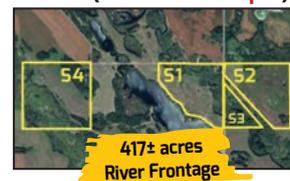
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AUCTION SALES 0900

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Large Farm Equipment Auctions

Farm Equipment Auction for Wayne and Gord Howard

Monday, August 14th at 10 am CST - Wapella, SK
3.2 kms west of Wapella on # 1 highway to New Finland Road, north 2 kms to crossroad, west 2.8 kms

Sale Includes:

- 1986 JD 8450 w/ 7150 hrs.
- 1982 JD 4640 w/ 6654 hrs
- 1966 JD 4020 power shift w/ Dual loader, 8600 hrs.
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- 1953 Allis Chalmers HD 15 Cat w/ cable dozer (good condition)
- TD9 Cat (was running)
- 48' Dry Fan totally enclosed seed plant
- 1982 MF 885 SP 25' swather w/ PU reel 2211 hrs.
- 14' Mac Don 910 hay header
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- Frecon 1750 bus. hopper bin
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For information call Wayne or Gord at 306-532-4720
Full listing and photos www.rosstaylorauction.com

Retirement Farm Auction for Glen and Ida Zarn

Wednesday, August 16th at 11 am CST - Reston, MB
To be held at their farm located 6 miles west of Reston on # 2 highway to Ewart Road (Road 165 W) and 3 miles north

Sale Includes:

- 1999 Case IH 9330 w/ 5050 hrs.
- 1992 Case IH 5140 MFD w/ 510 loader, 3 pth, 2100 hours on new motor
- 1940's JD A w/ narrow front
- 1997 Case IH 2188 SP combine w/ 2650 rotor hrs.
- 1010 25' straight header w/ PU reel
- 1995 Case IH 8820 25' SP swather w/ PU reel 2278 hrs.
- EZ Trail 3400 hopper wagon (as new)
- 1987 Ford F800 tandem
- 1981 IH S1754 diesel
- 1977 Ford F 750
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MCSHERRY AUCTION: ESTATE OF Brian Surminski, Saturday, August 12th at 9:30 AM, Arborg, MB. 12 1/2 miles west on Hwy 68. Contact Ernie 204-222-4572. **Tractors:** Ford T.W. 15, MFWA, cab, 3PTH, FEL; White 2-135, cab, 6785 hrs.; IH 986, cab, 3496 hrs.; IH 784, 3PTH, FEL, 2455 hrs.; JD 2010, FEL, 5199 hrs.; JD 3020, gas, FEL; Ford 801, 3PTH; (2) Ford 9N, 3PTH; Ford 8N, 3PTH; Oliver 77, gas; CIH 1030, FEL. **Equipment:** Degelman LC 14 rock rake; Rock-O-Matic stone pickers; Hutchmaster 10' offset disc; MF 520 14' tandem disc; Hesston 565T round baler; NH 456 9' trailer sickle mower; Vicon 9 wheel rake; Many more grain, hay, and 3PTH equip; NH manure spreader; Farm misc. **Trailer & Vehicles:** 2005 Chev Silverado 4x4, Sft; 1965 Pontiac Parisima Custom Sport 2 Door; 1954 Dodge 1/2 ton, stepside box; Tools; Professional tools; Yard & Recreation; Antiques & Antique vehicles. **Stuart McSherry**, Stonewall, MB. 204-467-1858 or 204-886-7027. For more listings: www.mcsberryauction.com

TRUDI LANGE and Estate of Ken Lange, Ukrainetz Auction. Exotic and Domestic Wildlife Mounts Auction. Permit number: S17-Y1-ADSW01. Monday, August 7, 2017 at 1:00 PM, online bidding. Directions: from Orcaida, SK, 5 1/2 km. north, 2 km. west. For viewing, contact Trudi: 306-782-5650, dvcfarms@xplornet.ca. 48 lots of exotic & domestic wildlife mounts. For full details, please visit www.ukrainetzauktion.com PL# 915851.

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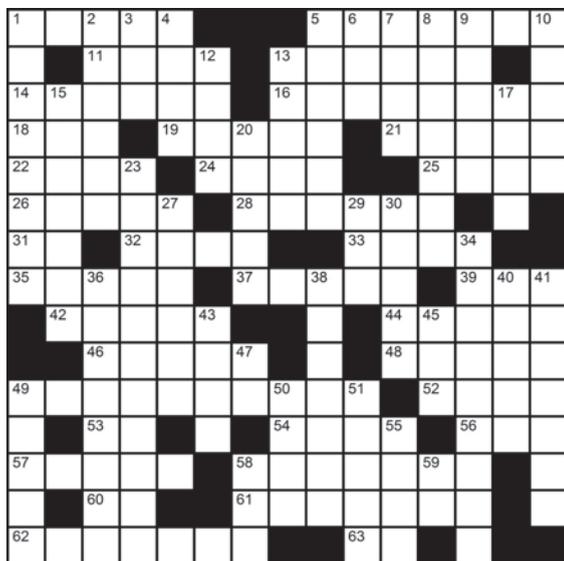
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K	I	P	O	S	L	E	E	P	M	S				
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Last Weeks Answers

- ACROSS**
- She played the widow in *Zorba the Greek*
 - She played the middle sister, Delores "Dee" Anderson in *Sparkle*
 - Luise Rainer's character in *The Good Earth*
 - National Lampoon's* ___ *Trip* (1995)
 - The Tree* (2011) (2 words)
 - Flipper* producer (2 words) (1963)
 - She played Wang's fiancée Miao Yin in *Big Trouble in Little China*
 - 2011 film starring Channing Tatum (with *The*)
 - She played Suellen O'Hara in *Gone with the Wind*
 - ___ *Upon a Time* in *America* (1984)
 - Film starring Tippi Hedren and Melanie Griffith (1981)
 - Mr. Nobody's first name in *Mr. Nobody*
 - ___ *of a Woman* (1992)
 - ___ *Romantic?* (2 words) (1948)
 - ___, *Wilderness!* (1935)
 - Wrong* ___ (2003)
 - A Baldwin brother
 - The Peacemaker* director
 - Canadian film award
 - Source of the Beverly Hillbillies' wealth
 - He played Colonel Bellows on *I Dream of Jeannie*
 - Walker whose last film acting role was in *Sabrina* (1954)
 - She played Gail Hailstorm in *Scary Movie*
 - ___ *Destruction* (2 words) (1991)
 - He played Ernie Klump, Jr. in *The Nutty Professor* and *Nutty Professor II: The Klumps* (2 words)
 - Frey from Germany
 - Initials of the voice of Scrappy-Doo in *Scooby-Doo* (2002)
 - Swedish actor Winnerstrand
 - McDiarmid from *Scotland*
 - Mother* ___ *Tell Me* (1950)
 - The Manchurian Candidate* screenwriter (1962)
 - Titan* ___ (2000 animated film)
 - ___ Hill (1999)
 - Gone Baby Gone* Oscar nominee (2 words)
 - Actor Wynn
- DOWN**
- Film starring Sandra Bullock and Ryan Reynolds (with *The*)
 - ___ *Academy* (1984)
 - 2001 biographical sports film
 - 1995 Julianne Moore film
 - One of eight siblings who were all child actors
 - Film starring Rooney Mara and Ben Mendelsohn
 - That Touch of* ___ (1962)
 - She played Marie Helena Kreutz in the first two Bourne films
 - Sivan who played the young Wolverine in *X-Men Origins: Wolverine*
 - She played Gibson's wife in *Ransom*
 - ___ *Dark* (1987)
 - ___ Weir Mitchell
 - He wrote *The Mighty Quinn*
 - ___ *Williams: The Adventure Begins*
 - She played Celeste Wood in *Runaway Jury*
 - 1960 film that was nominated for an Academy Award for Best Actor in a Leading Role (with *The*)
 - Ann who was married to Richard Harris
 - ___ *Pan* (1986)
 - Actress Graff
 - Sylvia who was born in Darjeeling, British India
 - 1928 film starring Florence Vidor and Gary Cooper
 - She played the female lead in *Central Intelligence*
 - Massey from Hungary
 - Kelly's last name in *The Ten* (2007)
 - Miss Terradiddle in *Slam Dunk Ernest*
 - Keel-billed toucan and Rafael's wife in the animated film *Rio*
 - The Godfather Part* ___ (1974)
 - The Passion of the Christ* setting
 - New York, I Love You* ___ (series finale of *Gossip Girl*)
 - Actor who was People's Sexiest Man Alive of 1992
 - Canadian who starred in *Dark Shadows*
 - Leslie Knope's best friend on *Parks and Recreation*
 - The Girl* ___ *the Train* (2016)

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2015 Case IH 9240



1 of 6— 2014 John Deere S680



1 of 2— 2014 New Holland T9.530HD



2— 2016 John Deere W150 35 Ft



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UNRESERVED AUCTION: Sunday, August 20, Smoky Lake, AB. All 1 owner; Kubota M6800 tractor, 117 hrs.; Kubota L3830, 41 hrs.; Kubota BX2600, 45 hrs.; NH LS170 skid steer, 189 hrs.; 2003 GMC 2500 w/hydra deck, 16,830 kms.; 5 lama's w/handling equipment and more! Internet bidding: www.producauctions.com

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Upcoming: Farmer Surplus Sale - Aug 15; 2010 New Holland CR 9080 w/Swath Master Pick Up; 40' 2014 Case IH Straight Cut Swather Header; 1976 Case Tractor 1070 w/Loader; 2003 Morris Drill Tank w/ Anhydrous System; 71' 2009 Morris Contour Drill w/12" Space Dual Shoot; 2004 Freightliner; 2012 Case Steiger Wheel 4x4; Monthly Industrial & Ag Equipment; Monthly Firearms Sale - Consignments Welcome! Rustic Island Cottage - Lac La Ronge.

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GIL AND ROSE ANDREWS Farm Auction, Ukrainetz Auction, MacNutt, SK. Saturday August 12th, 9:30 AM. Directions: 3 miles south of MacNutt, 3 1/4 miles west. Online at 1:00 PM. Contact Gil, 306-742-4382 or 306-993-8464. **Tractors:** 1979 JD 4640, dsl, cab, good rubber, 20.8x38 tires, duals, 3 hyd, quad shift, tin good; 1974 JD 4230, dsl, cab, 18.4x38 tires, cast wheels, dual hyd, quad shift; 1972 JD 4000, dsl, dual hyd, PTO, tin fair, good rubber, 18.4x34 tires, std shift, w/JD 46A FEL and bucket; 1965 Ford 3000, dsl, 3PTH, 10 spd, PS, PTO, 13.6x28 new tires. **Truck:** 1975 Ford L700 2-ton grain truck, gas, auto, 9,00-20 rubber, 7.6'x17' B&H, PTO, 54,656 original miles. Tillage, discs, stone picker, sprayers, livestock equip, scraper, shop, & tools. **Yard & Rec:** 2007 Polaris 700 Ranger XP side-by-side, cab, doors, 5800 kms, 25x10.00-12 tires; Quad sprayer; Pull-behind lawn sweep; Garden tiller, new 6.5 HP motor; JD 165 2-wheel utility trailer. Shop, tools, misc, and some household. **Note:** JD tractors and a large assortment of shop and misc. items. Visit www.ukrainetzauction.com for updated listings and pictures. PL #915851.

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2009 LODEKING SUPER B, alum. wheels, lift axles, auto greaser, \$57,000; 2006 Lodeking Super B, alum., \$25,000. Yellowhead Sales, 306-783-2899, Yorkton, SK.



ONLINE AUCTION: Completely unreserved dispersal for Jater Transport Ltd. located in Emerald Park, SK. Bids close August 10 at noon. Sale to include: 2010 Peterbilt 389; 2008 Peterbilt 389 w/Wet Kit; 2006 Peterbilt 379; 2005 Peterbilt 379; (2) 2015 Lode King Super B flat decks w/poly tankers; (2) 2015 & (1) 2013 Lode King Prestige Super B grain trailers; 2001 Fontaine 53' highboy flat deck trailer. Visit www.McDougallAuction.com for details or call 1-800-263-4193. PL#319916.

2014 SUPER B Lode-King, aluminum trailers, lift axles, 22.5 rubber, priced to sell. Call Basil, 306-831-7026, Wisseton, SK.

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GRAIN TRAILERS 1505



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1995 DOEPKER 48', 102", tandem machinery trailer, single drop, hyd. tail/flip, alum. outriggers, 12,000 lb. winch, good cond., \$35,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

GRAVEL TRAILERS, END dumps, clam dumps, cross dumps, side dumps. Check prices on: www.trailerguy.ca Call 306-222-2413, Saskatoon, SK.

TANKER TRAILERS: Stainless steel alum. potable, tandem and tri-axles, 4000-7500 gal \$12-\$18,000. 306-563-8765 Canora SK

COMBINE TRAILER TRI-AXLE, 2000 Janzen, 12' wide, Sask. safety, \$18,700. Call 306-222-2413, Saskatoon, SK. www.trailerguy.ca

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21' 676 WIRELINE van, aluminum floors, heater, generator, PTO, hyd. tank, \$4995. Stk# UV1099A. On Track Company Inc. 780-672-6868, Camrose, AB.

2009 PRECISION 20' tilt deck tridem trailer, new fender & torsion axles, \$9000 OBO. 250-833-4706, dandgutters@gmail.com



2016 KANE M675-1.8 trailer, good for silage, grain, manure, gravel, dirt, hyd. rear door w/grain hatch, silage extension sides, tractor wagon, \$42,500. Call anytime 204-743-2324, Cypress River, MB.

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2009 FORD F250 4x4 SuperCab, 6.4L diesel, auto., fleet maintained, fresh safety, very good, \$19,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.



2006 F250 4x4 regular cab, service body, only 88,000 kms., fresh safety, fleet maintained, 5.4 auto., very clean unit, good rubber, \$14,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

1989 CHEV SILVERADO reg. cab, 2 WD, fully loaded, blue and white, no leather, running boards, autostart, 83,500 orig. kms, no winter driving, no rust, mint! \$12,500; 2004 GMC ext cab, 4x4 SLE, 111,739 orig. kms, A/T/C, PW, PDL, push button 4x4, spray-in boxliner, 2 way auto-start, Silver birchwood color. 5.3L eng., auto., no rust, mint, \$16,000. 306-383-7575, Quill Lake, SK.

FOUR WHEEL DRIVE 1670

2004 DODGE RAM 3500 SLT quad cab. Salmon Arm, BC. dandgutters@gmail.com 250-833-4706

GRAIN TRUCKS 1675

1971 FORD F500 with B&H and roll tarp in good condition, \$5500. Call 306-223-4417, Laird, SK.

1979 INT. TANDEM grain truck, IH 446 gas w/20' grain B&H, well maintained but eng. needs work, turns over but does not start. 128,000 orig. kms. 306-631-7433, Moose Jaw, SK. Email: newfarm@shaw.ca

1989 IH F1954, 466 dsl., 5&2, air brakes, rear TA, new 11x22 tires, new 8x20 box 5 yrs. ago, roll up tarp, 108,000 kms., \$50,000. 306-449-2255, A.E. Chicoine Farm Equipment Limited, Storthoaks, SK.

1994 FL80 TANDEM, 8.3L Cummins, 5 spd. Allison auto., air ride, clean truck, fresh SK safety, long enough for 20' grain box. Call Neil at 306-231-8300, Humboldt, SK.

1997 FORD LOUISVILLE tandem grain truck w/20' Midland box and roll tarp, 8.3 Cummins (no emissions), 105,000 kms., 6 spd. auto, Allison trans., 16,000 lb. front axles, 385/65R22.5 tires, rear 11R22.5's like new, mint condition, must be seen! \$60,000. 20 year old truck looks & drives like new. 204-771-9700, La Salle, MB.

20+ TANDEMs: Standards & Automatics. Yellowhead Sales, 306-783-2899, Yorkton, SK.

GRAIN TRUCKS 1675



1991 GMC KODIAK SLE, C&C, 278,000 kms, 3126 Cat, 5&2, hyd. disc brakes, 11Rx22.5 - 80%, 116" C/A, fresh SK safety, PTO c/w pump, ready for your 15' box, \$10,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2000 IHC 2674, 350 Cummins, 6 spd. Allison auto., tandem, low hrs. and kms., will take 22' grain box. Call Neil at 306-231-8300, Humboldt, SK.

2007 MACK, 10 speed Eaton auto., new 20' CIM B&H, 380,000 kms., fresh Sask. safeties. Call 306-270-6399, Saskatoon, SK. www.78truxsales.com DL #316542.

2007 MACK, 400 HP Mack eng., AutoShift trans., A/T/C, new 20' BH&T, new rear tires, 716,000 kms, exc. shape, \$67,500; **2009 IH Transtar 8600** w/Cummins eng. 10 spd., AutoShift, new 20' BH&T, 742,000 kms, exc. tires, real good shape, \$69,500; **2007 IH 9200**, ISX Cummins, 430 HP, AutoShift, alum. wheels, new 20' BH&T, fully loaded, 1,000,000 kms, real nice, \$67,500; **2009 Mack CH613**, 430 HP Mack, 10 spd., AutoShift, new 20' BH&T, alum. wheels, 1.4 million kms, has bearing roll done, nice shape, \$69,500; **2007 Kenworth T600**, C13 Cat, 425 HP, 13 spd., AutoShift, new 20' BH&T, alum. wheels, new paint, 1.0 million kms, exc. truck, \$71,500; **1996 Midland 24'** tandem pup grain trailer, stiff pole, completely rebuilt, new paint and brakes, exc. shape, \$18,500; **1999 IH 4700 S/A** w/17' steel flatdeck, 230,000 kms, IH dsl., 10 spd., good tires, \$19,500; **1998 Freightliner tractor**, C60 Detroit, 430 HP 13 spd, alum. wheels, sleeper, good rubber, \$17,500; **2005 IH 9200 tractor**, ISX Cummins, 430 HP 13 spd., alum wheels, flat-top sleeper, good rubber, \$22,500. All trucks SK. safetied. Trades considered. All reasonable offers considered. Arborfield SK, call Merv at 306-276-7518 res., 306-767-2616 cell. DL #906768.

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RETIRED: 1977 FORD F600, steel B&H; 1979 F600, steel B&H. Both in good cond. 306-944-4325, 306-231-8355, Bruno, SK.

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GRAVEL TRUCKS 1676



2007 KENWORTH T800, C15, pre-emissions, 886,000 kms., all new tires, 2 year powertrain warranty, w/new 2017 26' JBS spreader, HD vertical beaters, 960 cu.ft. scale system, \$206,000. Dew-Fab, Dewberry, AB, 780-847-0000.

2012 IHC TRANSTAR, low pro, Max 300 HP diesel, Allison auto. trans., single axle, loaded cab, 13' Armstrong landscape dump, \$39,900; 2010 CHEV 1 ton dump truck w/10' gravel dump, \$14,900. **K&L Equipment and Auto.** Call Ladimer, 306-795-7779, Ituna SK. DL #910885.

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SEMI TRUCKS 1677

1981 IHC F2574 671 13 spd., 240 WB, 20' B&H c/w silage gate, \$22,000. During the day, call 403-932-2131, Cochrane, AB.

1999 INTERNATIONAL 9200 Series, daycab, C10 Cat engine, 9 spd. trans., \$17,000. 306-463-8416, Eston, SK.



2005 PETERBILT C15 eng., 18 spd., w/2016 Timpte trailer. Both units in exc. cond. w/safety papers. \$105,000 for both units. Will separate. For more details, 204-918-4029, 204-981-3636, Cartier, MB.

2005 WESTERN STAR Low Max, Detroit 515, 18 spd., 40 rears, 1.2M kms, good 11x22.5 tires. 306-634-9324, Estevan, SK.

2006 KENWORTH W900, 565 Cummins, 18 spd., 46,000 rears, double highrise bunk, \$38,000. 780-983-0936, Clyde, AB.

2006 PETERBILT 379XL, C15 475-550, 13 spd., 12 fronts, 40 rears, 22.5 rubber clean truck, asking \$42,500. Call 204-952-5937, Winnipeg, MB.

SEMI TRUCKS 1677



2008 PETERBILT 386, 46K rears, 18 spd., 525 HP Cummins, Inframe, deleted, 1.5M kms, \$39,500. 780-206-1234, Barrhead AB



2009 IH PROSTAR, 500 HP Cummins, 18 spd, 46,000 rears, 4-way locks, 485,000 kms \$41,000. 780-206-1234, Barrhead, AB

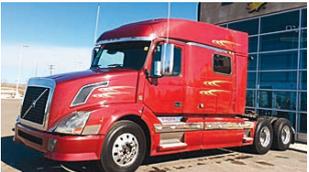


2009 VOLVO 430, D16 535 HP 18 spd., 46,000 rears, 4-way locks, 290,000 kms, PTO, 68,900\$. 780-206-1234, Barrhead AB

2010 INTERNATIONAL PROSTAR, 500/550 Cummins eng., full delete, safety done in June, new Michelin's all around, all maintenance records available, 1,880,000 kms. Possibility of job to go with the truck! \$50,000. Call 306-229-5626, Kinistino, SK.



2011 IHC PROSTAR, daycab, 515 HP Cummins, 18 spd. trans., 46 rears, full lock, hi-low pressure wet kit, c/w 2002 Lode-King alum. B-train, spring ride, 685,000 kms, good to go, \$68,500. Financing avail. 306-563-8765, 306-563-4160, Canora, SK.



2011 VOLVO 730 mid-roof, Volvo D16-550 HP 18 spd., 1,265,000 kms., \$34,900. Call Norm at 204-761-7797, Brandon, MB.



2012 FREIGHTLINER CASCADIA mid-roof, DD15-505 HP, 13 spd., 876,500 kms., \$49,900. Norm 204-761-7797 Brandon MB

SEMI TRUCKS 1677



2012 MACK PINNACLE CXU613 day-cab, Mack MP8-455HP Eaton 13 spd., \$39,900. Call Norm 204-761-7797, Brandon, MB.

2013 MACK CHU613, auto. trans., heavy rear end, 505 HP c/w 2015 Etnyre Black Hawk equipment trailer, 10'W, tridem lift axles, alum. wheels, pullouts. Great for Farm Dealership. Sell as unit or separately. Call 780-720-4304, Willingdon, AB.

2013 PETERBILT 367 picker truck, 208,822 kms., 5277 hrs., Stk # UV1107 \$123,985. On Track Company Inc. 780-672-6868, Camrose, AB



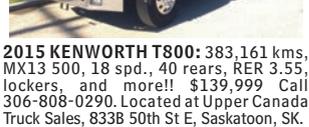
2013 VOLVO 630 mid-roof, flat deck spec, Volvo D13, I-Shift, 784,000 kms., \$64,800. Call Norm at 204-761-7797, Brandon, MB.



2013 VOLVO HEAVY Spec, D16, 550 HP, 46 rears, 4-way locks, 1 owner, 250K, like new, \$85,900. 780-206-1234 Barrhead, AB



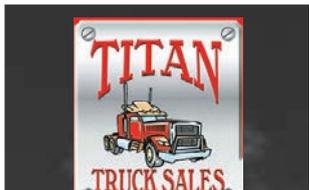
2015 KENWORTH T800: 383,161 kms, MX13 500, 18 spd., 40 rears, RER 3.55, lockers, and more!! \$139,999. Please call 306-808-0290. Located at Upper Canada Truck Sales, 833B 50th St E, Saskatoon, SK.



2015 KENWORTH W900B, 475,215 kms, MX500, 18 spd., 46 rears, RER 4.10, lockers and more!! \$139,999. Please call 306-808-0290. Located at Upper Canada Truck Sales, 833B 50th St E, Saskatoon, SK.

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2012 Kenworth W900L	743,820KM.....	\$74,000
2012 Kenworth W900L	922,081KM.....	\$69,000
2014 Mack CXU613	454,332KM.....	\$65,000
2012 Kenworth W900B	809,364KM.....	\$62,000
2012 Kenworth W900B	832,553KM.....	\$62,000
2012 Kenworth W900B	967,403KM.....	\$62,000
2012 Kenworth T800	603,370KM.....	\$59,000
2012 Kenworth T800	686,870KM.....	\$59,000
2008 Peterbilt 367	387,205KM.....	\$59,000
2009 Kenworth T800	377,728KM.....	\$49,000
2012 Peterbilt 386	754,325KM.....	\$47,000
2012 Peterbilt 386	786,549KM.....	\$47,000
2012 Kenworth T660	816,785KM.....	\$47,000
2011 Freightliner Cascadia	740,848KM.....	\$42,000
2011 Freightliner Cascadia	848,912KM.....	\$42,000
2013 Mack CXU613	655,886KM.....	\$40,000
2013 IHC Prostar	320,902KM.....	\$39,000
2013 IHC Prostar	367,046KM.....	\$39,000
2010 Freightliner Cascadia	986,500KM.....	\$35,000
2010 IHC Prostar	758,062KM.....	\$35,000
2007 IHC 4900	1,134,252KM.....	\$35,000
2013 IHC Prostar	516,658KM.....	\$34,000
2010 IHC Prostar	991,783KM.....	\$30,000
2009 Mack CXU613	761,283.....	\$29,000
2009 Mack CXU613	895,535KM.....	\$29,000
2009 Mack CXU613	907,299KM.....	\$29,000
2009 Mack CXU613	922,248KM.....	\$29,000
2009 Mack CXU613	1,012,252KM.....	\$26,000
2009 Mack CXU613	1,039,081KM.....	\$26,000
2009 Mack CXU613	1,145,731KM.....	\$26,000
2002 IHC 4900	134,808KM.....	\$25,000
2013 Volvo MCT125C Skid Steer	2 Speed, 77" Bucket.....	\$49,000
Grattex Snow Pusher	Sweepster QCSS-SSL.....	\$4,500
Angle Sweeper	\$4,500
Pallet Forks & Skeleton Bucket	\$1,200 & \$500
2000 New Holland 9684 - Cummins N14, 12 SP Powershift, 20.8/42 Tires, 4 Hydraulics, 7610 Hours.....		\$49,000
1975 Clark C500Y80	4,125 Hours.....	\$3,900

SEMI TRUCKS 1677



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VARIOUS 1685

2008 IH 7600 tandem 24' van body, power tailgate, 10 speed ISX; 2007 Freightliner auto. trans., 24' deck. Ron Brown Imp. 306-493-9393, Delisle, SK. DL #905231 www.rbisk.ca

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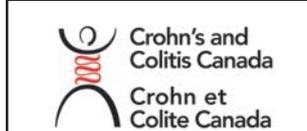
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2003 UNVERFERTH 8200, tarp, \$31,000 OBO. 306-563-8482, Estevan, SK.

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2010 E-Z TRAIL 860, lights, roll tarp, 14" hyd folding auger, hyd grain slide. \$24,000. 780-871-3963, Paradise Valley, AB.

GRAIN CARTS: Brent 672, 674, 770, 772, 774, 874, 974, 1080; 1082; Unverferth: 7000, 8000, 9200; Ez-Flow 475, 675, 710; Hyd. drive UFT 725, 750, 760, 4765. We have others. 35 gravity wagons, 200 - 750 bu. 1-800-938-8537, Portage la Prairie MB. www.zettlerfarmequipment.com

2013 DEMCO 1150 bu., never used, 900 tires, 1000 PTO, tarp, no scale. Call for pricing, 204-522-6333, Melita, MB.



2010 BOURGAULT 750 Smart Cart, tarp, lights, hyd. and/or PTO drive, very little usage, \$23,000. 306-563-8765, Canora, SK

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Model	Tunnel Width	Auger Diameter	Capacity bu/hr	Conveyor Option
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RGB1020C	10'	20"	33,000	n/a
RGB1220	12'	20"	33,000	30" (W) x 24" (L)

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2015 JOHN DEERE S670
1032/752 hrs, dual, C/M feederhouse.

\$382,000



2008 JOHN DEERE 9770STS
2476/1933 hrs, duals, fixed feeder, power cst TB.

\$149,000

4WD TRACTORS

2012 JD 9560R, duals, PTO, 3007 hrs.....	\$49,900	(OX)
2015 JD 9620R, duals, PTO, 814 hrs.....	\$510,000	(AV)
1981 Case IH 4490, singles, PTO, 6550 hrs.....	\$22,000	(ES)

TRACK TRACTORS

2012 Case IH 500 Quadtrac, PTO, 1720 hrs.....	\$369,000	(RE)
2010 Case IH 535 Quadtrac, PTO, 3pt, 6979 hrs.....	\$219,000	(RA)
2013 Case IH 550 Quadtrac, 2900 hrs.....	\$369,000	(RA)

2WD - MFWD TRACTORS

2014 JD 7290R, MFWD, IVT, duals, 2070 hrs.....	\$272,500	(RA)
1996 JD 7800, MFWD, loader, 11845 hrs.....	\$59,500	(OX)
2008 New Holland TV145, MFWD, 6115 hrs.....	\$74,000	(RE)
2005 Kubota M125, MFWD, 5290 hrs.....	\$37,500	(ES)
2014 CIH Puma 150, MFWD, PPS, loader, 1032 hrs.....	\$149,900	(RA)
2010 CIH Magnum 180, loader, MFWD, 4665 hrs.....	\$134,000	(RE)
2014 CIH Magnum 380, MFWD, IVT, 3567 hrs.....	\$289,000	(RE)
2010 JD 5045D 2WD, loader, syncro, 415 hrs.....	\$22,900	(ES)
1993 JD 6200 MFWD, loader, O/S, 3000 hrs.....	\$29,900	(OX)

SEEDING EQUIPMENT

61' JD 1820/1900, 340 bus cart, double shoot, 2002 ...	\$49,000	(RA)
61' JD 1820/1900, 10" spg, double shoot, steel packers, 340 bus tank, 2005.....	\$45,000	(ES)
56' JD 1870/1910, 12" spg, D/S, 1910 430 bu TBT, 2010.....	\$185,000	(AV)
34' Flexi-Coil 5000, 10" spg, D/S.....	\$37,000	(RA)
40' Flexi-Coil 5000, 2320 tank, 1994.....	\$20,000	(ES)
57' Flexi-Coil 5000, 3450 tank, 1997.....	\$20,000	(RE)
76' Bourgault 3320/7700, 10" spg, D/S, 2014.....	\$452,000	(AV)
65' Bourgault 3310/6550ST, 10", double shoot, 2010.....	\$199,000	(RA)
66' Bourgault 3310/6550ST, single shoot, 12" sac, 2010.....	\$159,000	(AV)
60' Bourgault 3710/7700, disc drill, 2014.....	\$390,000	(RA)
Bourgault 5300 340 bu TBH, 2003.....	\$20,900	(RE)
40' Seed Hawk 40-12 12", D/S, 360 bus tank, 1999.....	\$49,000	(RE)
90' SeedMaster TX8-M90, 12" spacing, front and rear, 550 bus JD 1910 air tanks, sectional control, ARM, 2013.....	\$215,900	(ES)
80' SeedMaster/JD TBX8012/1910, 12" spg, double shoot, 2008.....	\$143,900	(OX)
John Deere 1910, 250 bu TBT, D/S, 3 tank, 2003.....	\$28,700	(RA)

COMBINES

(PLEASE REFER TO OUR WEB SITE FOR MORE DETAILS)

(3) - 2012 JD S670.....	See Website	
2014 JD S670, 435 sep hrs.....	\$400,000	(RA)
2014 JD S670, duals, 459 sep hrs.....	\$399,000	(RA)
(4) - 2015 JD S670.....	SEE WEBSITE	
2014 JD S680, duals, 641 sep hrs.....	\$420,000	(RA)
(4) - 2012 JD S690.....	SEE WEBSITE	
2013 JD S690, duals, 850 sep hrs.....	\$400,000	(ES)
(4) - 2014 JD S690, duals.....	SEE WEBSITE	
2010 JD T670, singles, 1131 sep hrs.....	\$214,900	(RE)
2010 JD T670, singles, 493 sep hrs.....	\$277,900	(RE)
2009 JD T670, singles, 1419 sep hrs.....	\$177,900	(RA)
2008 JD 9770, duals, 1933 sep hrs.....	\$149,500	(AV)
2008 JD 9770, duals, 1708 sep hrs.....	\$152,600	(RE)
2010 JD 9770, duals, 1532 sep hrs.....	\$192,400	(AV)
(4) - 2011 JD 9770.....	SEE WEBSITE	
2008 JD 9870, duals, 1861 sep hrs.....	\$166,500	(AV)
2008 JD 9870, duals, 2269 sep hrs.....	\$146,900	(AV)
2009 JD 9870, singles, 1458 hrs.....	\$197,900	(AV)
2009 JD 9870, duals, 1780 hrs.....	\$187,000	(AV)
(3) - 2010 JD 9870, duals.....	SEE WEBSITE	
2011 JD 9870, duals, 1400 hrs.....	\$239,000	(ES)
2005 JD 9760, singles, 2149 hrs.....	\$118,500	(AV)
2006 JD 9860, singles, 2402 hrs.....	\$128,700	(AV)
2001 JD 9650W 3720 hrs.....	\$66,000	(RE)
1998 JD 9610, singles, 3278 hrs.....	\$40,000	(RA)
1998 JD 9610, singles, 3692 hrs.....	\$40,000	(RA)
1995 JD 9600, singles, 3787.....	\$34,000	(RA)
2012 New Holland CR8090, duals, 788 sep hrs.....	\$328,800	(RE)

COMBINE PLATFORMS

JD 914 Pickup Headers, several.....	SEE WEBSITE	
2010-2014 JD 640D, 40' draper, several to choose from.....	CHECK WEBSITE	
2012-2014 JD 640FD, 40' flex drapers, several to choose from.....	CHECK WEBSITE	
2014 JD 635FD, 35' flex draper.....	\$78,200	(RA)
2014 JD 635FD, 35' flex draper.....	\$82,500	(RA)

2009-2011 JD 635F, 35' flex, 2 units.....	\$27,900-\$32,900	(RA)
2009-2012 JD 635D, 35' draper, several to choose from.....	CHECK WEBSITE	(ES)
2008 JD 630F, 30' flex.....	\$23,000	(RA)
2003 JD 936D, 36' draper.....	\$25,500	(RE)
2005 JD 936D, 36' draper.....	\$33,000	(RE)
2007 JD 936D, 36' draper.....	\$37,100	(RE)
2010 MacDon D60, 40' rigid.....	\$33,500	(RE)
2009 MacDon D60, 40' rigid.....	\$35,000	(AV)
2009-2012 MacDon FD70, 45' flex draper, 8 units.....	CHECK WEBSITE	
2014 MacDon FD75 45' flex draper.....	\$84,500	(ES)
2002 MacDon 972, 36', JD adapter.....	\$19,900	(RA)
2003 MacDon 972, 36', JD adapter.....	\$24,900	(RE)

CORN HEADERS

2002 JD 1290, 12 row, 20" spacing.....	\$31,000	(AV)
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SP WINDROWERS

2008 JD 4895, 36' head, 1002 hrs.....	\$76,000	(RE)
2008 JD 4895, 36', 1600 hrs.....	\$73,400	(RA)
2001 MacDon 2952, 30', 2792 hrs.....	\$49,700	(RE)

GRAIN HANDLING EQUIPMENT

2007 Brandt 8x52 Grain Auger.....	\$8,500	(RE)
2014 Brandt 13110HP Grain Auger.....	\$24,300	(OX)
2013 Brandt 13x70XL Grain Auger.....	\$17,900	(RA)
2015 Brandt 13x70hp Grain Auger.....	\$19,900	(RA)

GRAIN CARTS

2011 Brent 1394, tarp, scales, walk duals.....	\$69,900	(ES)
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DISKS

2008 JD 637, 45', 9" spacing.....	\$66,000	(ES)
2009 Wishek 862NT, 37', 11" spacing.....	\$72,500	(RA)

SPRAYERS

1999 JD 4700, 3100 hrs.....	\$97,000	(RA)
2012 JD 4730, 1180 hrs.....	\$242,000	(RA)
2013 JD 4730, 975 hrs.....	\$274,800	(AV)
2013 JD 4730, 1050 hrs.....	\$275,900	(RE)
2010 JD 4830, 1487 hrs.....	\$198,000	(OX)
2007 JD 4930, 3202 Hrs.....	\$155,000	(RE)
2008 JD 4930, 2039 hrs.....	\$189,000	(ES)
2008 JD 4930, 2650 hrs.....	\$181,500	(AV)
2010 JD 4930, 1490 hrs.....	\$237,900	(RA)
2014 JD 4940, 1137 hrs.....	\$329,000	(ES)
2003 Apache 859, 90', 2600 hrs.....	\$72,500	(RA)

HAYING EQUIPMENT

2012 New Holland H1750 Mower Conditioner.....	\$37,200	(AV)
2003 JD 567 Round Baler.....	\$14,900	(OX)
2010 JD 568 Round Baler, surface wrap.....	\$35,200	(RA)
2011 JD 568 Round Baler, surface wrap, 17,700 bales.....	\$35,400	(RE)
2012 JD 568 Round Baler.....	\$38,700	(RE)
2014 JD 569 Round Baler, surface wrap, 6974 bc.....	\$54,000	(RE)

MISCELLANEOUS EQUIPMENT

2002 Bourgault 7200 Heavy Harrow.....	\$30,000	(ES)
2002 Degelman 7000, Heavy Harrow.....	\$36,000	(RE)
2008 Brandt VSF-X Bale Processor.....	\$7,900	(RA)
2007 Bale King 3010 Bale Processor.....	\$11,000	(RE)
2014 Vanguard 35 hp Engine.....	\$3,500	(RA)

LAWN & GARDEN EQUIPMENT

2009 JD Z860A Zero Turn Mower, 60" MOD, 3-bag MCS, 406 hrs.....	\$9,500	(OX)
2016 Woods FZ28K Zero Turn Mower, 60", MCS, front blade.....	\$19,900	(ES)
2010 JD Z425 Zero Turn Mower, 48", 476 hrs.....	\$3,150	(RE)
2011 JD Z655 Zero Turn Mower, 54" HC cut, 355 hrs.....	\$3,900	(RA)
2012 JD Z665 Zero Turn Mower, 60" HC cut, 227 hrs.....	\$4,550	(ES)
2012 JD D130 Lawn Tractor, 42" cut, 98 hrs.....	\$1,500	(ES)
2010 JD X320 Lawn Tractor, 48" cut, 140 hrs.....	\$3,300	(AV)
2007 Husqvarna YTH1542 Lawn Tractor, 42" cut, 30" tiller.....	\$3,500	(RE)

ATV / GATOR

2012 JD XUV825i Gator, 674 hrs.....	\$12,500	(OX)
2012 Artic Cat 1000 V-twin HD UTV, 163 hrs.....	\$13,900	(ES)



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- 98 JD 9610, 3329 hrs, 30.5x32, fine cut chopper, Dial-A-Speed, hopper topper **\$50,800**
- 06 JD 9760 STS, 2910 hrs, 480/70R30, 800 singles, GreenStar, TouchSet concave..... **\$84,000**
- 05 JD 9660 STS, 2896 hrs, 800/65R32, deluxe header controls, GreenStar **\$88,500**
- 04 JD 9760 STS, 3011 hrs, Outback AutoTrak, 800/70R38, Dial-A-Speed header control **\$93,000**
- 04 JD 9760 STS, 2640 hrs, 800/70R38, TouchSet concave, prem header control **\$99,700**
- 04 JD 9760 STS, 2509 hrs, 420/80R42, TouchSet concave adj, hyd fore/aft..... **\$104,000**
- 06 JD 9660 STS, 2116 hrs, 800/65R32, mech roll tarp, small wire concave..... **\$116,400**
- 05 JD 9860 STS, 2307 hrs, 800/70R38, new chopper hammers & top sprockets..... **\$124,900**
- 06 JD 9860 STS, 2038 hrs, 20.8-42, HID lights, premium header control, fore/aft **\$136,900**
- 10 JD 9870 STS, 2794 hrs, 20.8x42, large wire concave, Maurer 60 bu hop **\$167,600**
- 14 JD S670, 229 hrs, 520/85R42, AutoTrac, PowerGard warranty tll Aug/2018.. **\$382,500**

HEADERS

- 99 MacDon 962 30' Draper, compatible w/60 series, split PU reel, steel dividers .. **\$13,200**
- 07 Honey Bee SP3, 60 series adapter, Ull reel/upper cross auger, hyd fore/aft..... **\$23,200**
- 07 JD 936D Draper, multi-connection point, slow spd transport **\$27,920**
- 07 Honey Bee SP36 Draper, single knife drive, hyd fore/aft, hyd header tilt..... **\$30,800**
- 09 MacDon FD70-40' Flex Draper, double knife drive, off JD 9760 **\$58,000**
- 12 JD 635 Flex Draper, crop convey auger, header height sense rigid, off 9870 STS..... **\$82,200**
- 14 JD 635 Flex Draper, came off S680, crop convey auger, dual knife drive..... **\$90,000**
- (4) 16 JD 635FD Flex Draper, dual knife drive, crop convey auger, poly tine pu reel..... **\$103,200**

COMBINES

- 97 JD CTS, 2231 hrs, w/ JD 914 pickup, 30.5x32, dual range cyl, Dial-A-Speed..... **\$47,300**
- 01 JD 9650 STS, 2645 hrs, auto header height, Dial-A-Speed, 800/65R32, hopper topper..... **\$83,900**
- 03 JD 9650 STS, 3141 hrs, 20.8Rx38, Dial-A-Speed, hyd fore/aft, hopper topper.. **\$85,800**
- 04 JD 9760 STS, 3061 hrs, 800/65R32, large wire concave, wide spread chopper..... **\$90,800**
- 03 JD 9650 STS, 2714 hrs, 800/65R32, auto header height, small wire concave.... **\$93,600**
- 06 NH CR960, 2278 hrs, w/ 2006 76C 14' pickup header, 900/60R32, chopper.... **\$101,800**
- 05 JD 9660STS, 2139 hrs, new feeder chains/sprockets/return chain, hammers..... **\$112,700**
- 07 JD 9760STS, 2130 hrs, Contour Master, 800/70R38, bullet rotor, small wire con..... **\$119,000**
- 04 JD 9860STS, 2619 hrs, 20.8x42, Kuchar rub bars, Mav chopper, Redekop chop..... **\$125,100**
- 04 JD 9860STS, 1568 hrs, 480-42 duals, 18.4x26, high capacity unloading sys... **\$148,600**
- 11 JD 9770STS, 1487 hrs, premier cab, small wire concave, ProDrive trans, wide chopper **\$221,100**

HEADERS

- 05 MacDon 963 30' Draper, compatible w/60 series, split PU reel, hyd fore/aft.... **\$18,500**
- 05 Honey Bee NH 94C 36' Rigid, came off CR9090, hyd fore/aft, double knife drive **\$27,900**
- 08 JD 936D Draper, poly tine pickup reel, cutterbar full width skid shoes..... **\$29,500**
- 13 JD 635D Draper, poly tine pickup reel, gauge wheels & transport, off JD S670... **\$44,300**
- 08 MacDon FD70 40' Flex Draper, double knife drive, upper cross auger, CA20 adapt..... **\$64,600**
- (5) 14 JD 635 35' Flex Draper, dual knife drive, crop convey auger, poly tine reel **\$88,900 up**
- 15 JD 635 Flex Draper, dual knife drive, crop convey auger, reel tine flip over kit **\$96,800**



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HEADERS



2010 HB SP40
DKD, transport, for CNH combines, nice condition

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2003 HB SP36
36' rigid draper, transport, pea auger, U/I PUR, for CNH, Agco available

\$18,900



2000 HB 994
30' draper header, U/I PUR, gauge wheels, factory transport, fits CNH, Agco, & Lexion available.....

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2001 JD 567 Baler, always shedded, mint condition. \$17,500. 306-648-2763, 306-648-7595, Gravelbourg, SK.

2005 CIH 562 round baler, one owner, 4000 bales, \$17,000 OBO. 306-563-8482, Maple Creek, SK.

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NEW HOLLAND 1033 Stackliner bale wagon, in working cond, 105 bales. Rose-town, SK. 306-831-9979 or 306-882-3141.

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BALING EQUIPMENT 4139

2007 NH BR780A, 1 owner, autotie, 1000 PTO, Mega wide PU, done approx. 15,000 bales, stored inside. Retired. Lloydminster, SK. 306-825-2440 or 780-872-6461.

HESSTON 956A ROUND baler, netwreped ready, made only 1500 bales, shedded. \$19,000. 306-643-4823, Esterhazy, SK.



2013 CLAAS 3300 RC Quadrant 3x4 square baler, approx. 7000 bales made, very good cond., \$89,000. Can deliver. Call anytime 204-743-2324, Cypress River, MB.

NH 1002 Stackliner Bale Wagon, 1 owner, excellent condition; 84 Vers. 24' PT swather, 1 owner, field ready. 306-335-2756, 306-537-3718, Lemberg, SK.

JD 568 BALER, flotation tire, Mega PU, bale kicker hyd. PU, shedded, good shape. 306-856-4710, Conquest, SK.

NH 114 HAYBINE, 14', good working cond; JD 535 round baler, field ready, always shedded; NH 1033 bale wagon, PTO, field ready. Call 306-423-5748, Wakaw, SK.

NH BR780A and BR790 both with regular pickups, big tires, good running condition, shedded, \$20,000 for 2 or \$11,000 each. 780-808-4101, Frenchman Butte, SK.



NEW FARM-KING & MORRIS 14 bale wagons in stock, ready to go! Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

JD 568 BALER, mega wide plus PU, flotation tires, bale kicker, twine and netwrap, good condition, \$31,000 OBO. Call Scott 403-854-0230, Hanna, AB.



1999 HIGHLINE 700 BALE WAGON, 7 bale, very little use, \$13,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2015 CASE RB56 baler, under 1,000 bales, wide tires, \$49,000. Call Steve 780-674-8080, Cherhill, AB.

HESSTON 856 AUTO 5x6 round baler, AutoCycle, premium cond., 1 owner, 3078 bales, flotation tires, 1000 PTO, short crop kit, \$18,500. 306-747-7015 Shellbrook, SK

BALE SPEAR ATTACHMENTS for all loaders and skidsteers, excellent pricing. Call now 1-866-443-7444.

BUHLER 4500 BALE picker, picks 4x8 or 3x3x8 bales, always shedded, vg cond., \$20,000. Call 204-773-6890, Inglis, MB.

MOWER CONDITIONERS 4142



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MACDON 5000 16' mower conditioner, good shape. 306-232-7751, Duck Lake, SK.

NH 14' HAYBINE; MF 128 square baler; NH 1033 bale wagon; NH 268 square baler; NH chain round baler. 306-283-4747, 306-220-0429, 306-291-9395 Langham SK

JD 1209 haybine 9', vg shape, \$3500; Also 1998 Ford Windstar van, vg shape, \$1200. 780-764-2152, 780-718-0746, Hillard, AB.

MACDON 5020 16' mower conditioner, new guards and belts, \$8800. Call 204-859-2735, Rossburn, MB.

SWATHERS 4145

CASE/IH 8220 25' PT swather, UII pickup reel, stored inside, \$3000 OBO; 8' swath roller, \$500 OBO. 204-836-2406 or 204-825-7260, Swan Lake, MB.

2014 CIH WD1203 Series II, 36', w/D365 header, Rotoshears, 139 hrs., mint cond., \$94,000 OBO. 204-648-7129, Grandview.

2000 MF 220, 30'/U2, 1540 hrs, shedded, shears, roller, \$24,000 deliv.; Trail Tech carrier, up to 36', \$5500. 306-548-4315.

SWATHERS 4145

MACDON 155 2013, 650 hrs., 35', D65 header, large tire option, rear roller, Trimble GPS, asking \$132,000. Low rate financing available. Call 204-248-2359 or cell 204-242-4214, Notre Dame, MB.

1998 WESTWARD PT, 25' swather with U2 PU reel, always shedded, \$3000. Call 306-782-7023, Willowbrook, SK.



2010 MASSEY FERGUSON 9430 windrower, smooth cutting, 30' head, PU reel, rear mtd. swath roller, 2 spd. trans., new canvases, 1010 hrs., vg condition, asking \$68,500. Financing available. Call 306-563-8765, 306-563-4160, Canora, SK.

8100 HESSTON 30', double swath, PU reel, new canvases, guards and knife, field ready. 306-322-4755, Rose Valley, SK.

2006 JD 4895 swather, 30', c/w hay panels and hyd. roller, 525 eng. hrs., 427 cutting hrs., excellent shape, \$60,000 OBO. Call 306-646-4505, Mayfield, SK.

2012 MF 9740, 36', 400 hrs., very good \$99,000. Financing available at 0% - 3.49% from 12-72 months OAC. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

1999 MF 220 Series II, 26', DSA, PU reel, shedded, \$29,900. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2011 MASSEY FERGUSON 9430, 36' in excellent condition, asking \$90,000 OBO. Call 306-231-8212, Humboldt, SK.

1988 CI 722, 26' DS, MacDon PU reel, Kears shears, gauge wheels, Isuzu dsl. eng., overall good shape, very strong machine, works exc. in canola (same as MF 200), \$9500 OBO. 306-697-7897, Grenfell, SK.

1998 35' WESTWARD 9300, 960 header, PU reel, turbo, big tires, \$29,500; 1995 30' MacDon Premier 2900, PU reel, 960 MacDon header, 21.5-16.1 tires, \$19,500; 1995 Case/IH 8820, 30' header, PU reel, 21.5-16.1 tires, \$17,500. All swathers in exc. cond. 306-861-4592, Fillmore, SK.

2009 MACDON M150 Premier, 30', dbl knife, split reel Roto-Shears, new gator canvas last year both sides, never used for silage, c/w JD AutoSteer ready, 1100 swath hrs., 1350 hrs, exc cond, \$85,000. 780-679-7635 ext. 780, 780-608-0397, Camrose, AB.

1984 WHITE 6400 w/MacDon 30' swather, PU and batt reel, Perkins dsl., A/C, heat, radio, 3547 hrs., very good cond. transport avail., \$9000, 306-736-8336, Kipling, SK.

MF 9430, 36', 800 hrs, mounted hyd. roller, shedded, very good, \$69,000. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

1982 VERSATILE 4400 SP, 24' Dresser Waukesha 4 cyl., diesel, 2149 hrs, CAHR, 18.4x16.1 drive wheels, well maintained, shedded, 306-338-2927, Wadena, SK.

1985 MF 885 Swather, used 20 years w/no problems, good condition, \$6000. Prince Albert. 403-870-0091, gleia@wolffleia.ca

2005 MACDON PREMIER 2940, 30', 972 harvest header w/Vern's belly-mounted hyd. swath roller, 1348 cutting hrs., 1715 eng. hrs., clean and nice shape, shedded, \$57,000. 306-743-7780, Langenburg, SK.

2009 MACDON M100, 1043 eng./ 798 header hrs., D50 30' header, gauge wheels, Freeform hyd. swath roller, large rear tires, \$80,000. 204-247-0388, Roblin, MB.

2007 NH HW 325, 1098 hrs., 30' HoneyBee single knife drive, new knife and canvases, mtd. swath roller, always shedded, exc., \$57,000. 204-734-8662, 204-734-3728, Swan River, MB. tgjersak@gmail.com

MASSEY 885 SP, 30', gas, 1700 hrs, 66" opening, pickup reel, rebuilt wobble box, new canvases and spare parts, \$9500. Call 306-335-2777, Lemberg, SK.

2006 MF 9420 SP 30', 1510 hrs., sliding table, diesel, UII PU reel, caster wheels, good rubber, new batteries and canvases, asking \$39,500. Call 306-252-2810 or 306-567-7281, Kenaston, SK.

1995 HESSTON 8100 Windrower, \$10,500, draper header, diesel, 25' double knife, UII PU reel, fair condition, 403-870-0091, Prince Albert, SK. gleia@wolffleia.ca

CIH 725 25' PTO Swather, good condition, \$1000; 3 - 28'x48' HD hay tarps, new, never used, \$200 each. 306-445-0564, North Battleford, SK.

MF 885 25', DS, PU reel, new wobble box, lifters, good condition for 4000 hrs., field ready, offers. 306-287-8340, Watson, SK.

2001 MACDON 9352, 30', double knife, 1225 hrs, JD AutoSteer ready, 972 header, \$50,000 OBO. 780-768-2306, Vegreville.

2012 JD D450 c/w 35' header, PU reel, mtd. roller, Roto-Shears, 550 hrs., exc, \$84,500 OBO 306-297-7400 Shaunavon SK

2005 MF 9220, 30', PU reel, double swath, excellent cond., \$44,000. 306-567-8614, Davidson, SK.

1976 VERSATILE 400 18' Swather, good condition. 306-366-4720, St. Gregor, SK.

SWATHERS 4145

2006 MF 9420 SP swather, 30', 5200 header, triple delivery, gauge wheels, hyd. tilt, PU reel, Schumacher drive, Cummins 120 HP diesel, 2 speed hydro. adjustable rear axle, air/heat, new knife & guards last year, approx. 800 hrs, excellent shape, \$51,000. 403-664-0735, Sibbald, AB.

2009 CASE WD 1903 36' swather, less than 830 hrs. All the options: AutoSteer, UII PU reel, Roto-Shear, hyd. swath roller, exc. cond, \$80,900. 780-632-1935, Innisfree AB

2002 PREMIER 2952, hi/low spd., 39' MacDon 973 header, PU reels, pea auger, \$45,000. 306-634-9324, Estevan, SK.

2013 M155 c/w D65 40' header, transport, 700 hrs., shedded, \$129,000. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2008 MF 9430 36', 904 hrs., Schumacher knife and roller bearings last fall, UII reel brace kit, new canvases, field ready, exc. cond, \$60,000. 306-598-2017 Anaheim SK

1999 PREMIER 2930 SP 30' 972 split reel header, 3 speed transmission, turbo, 2039 hours, 21.5/16.1 front tires, 9.5/14 rear tires, good condition, \$37,500 OBO. 204-648-4945, Ashville, MB.

2011 WESTWARD M150 c/w 2012 D60 40' header, double knife, double reel, 1272 hrs. Call Carl 306-398-7713, Cut Knife, SK.

1986 SERIAL IMPLEMENTS 722 SP Swather, w/U2 PU reel, 2130 hrs., \$10,500; CIH 721 PT Swather, w/MacDon PU reel, \$1200. 204-638-8443, Dauphin, MB.

2000 8860 30' CASE/IH SP swather, low hrs., \$42,000; 2002 30' 2950 MacDon SP swather, \$40,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1993 MF 200 30' swather, diesel, PU reel, shedded, \$12,000 OBO; 3- 3300 bu., 2-1600 bu. Westeel bins w/wood floors. 306-759-2651, 306-759-7745, Brownlee.

WANTED: GOOD USED MacDon 155 or JD 150 swather, 35' single or dbl. knife drive, prefer one piece reel. Call 306-745-6140, 306-745-7530 cell, Esterhazy, SK.

725 IH 25' PT swather, always shedded, good condition, \$2000. Call 306-781-2904, Lajord, SK.

JD 800 15' SP swather, gas, no cab, one owner, new knife and canvases, 2 reels, low acres, shedded, \$3000; Koenders swath mount 9.5' crop roller, poly ribbed drum, used very little, exc. cond., shedded, \$1800. Call 780-908-3441, Leduc, AB.

2013 JD W150 w/40' 440D header, hyd roller, JD GPS, green MacDon, 232 eng. hrs., \$155,000. 306-421-6020, Torquay, SK.

2014 MACDON M155, w/D65 35' header, c/w free form roller, Trimble Autopilot AutoSteer, 365 eng. hrs., 290 header hrs. Call 306-873-9221, Archerwill, SK.

1989 CASE 736 36' swather, not used in 12 years. Shedded and in very good cond. 306-628-4267, Liebenthal, SK.

2014 CASE DH362 header 35', to fit CIH swather, like new, \$19,500. 306-861-4592, Fillmore, SK.

2008 NH H8040 SP windrower, 36', PU reel, fore/aft, Roto-Shears, rear axle susp., 920 hrs., pea auger. Must sell \$59,900 OBO. Can be seen at Shoal Lake Farm Equipment, Shoal Lake, MB. Call Ron at 204-895-1064.

2003 MACDON 9352i, 972 30' header, dual knife drive, PU reel, 900 hrs., \$48,000. 204-224-3532, 204-981-3080, Dugald, MB.

2006 WESTWARD SWATHER 9352i, 30' 972, 540 drive tires, double knife drive, double draper drive, Roto-Shears, pea auger, JD GPS wiring, full poly skid shoes, vg cond., \$52,000 OBO. 306-621-8352, Jedburgh, SK.

CIH WD1203 SALVAGE, good cab, engine, hyd. parts and auto guide. Call 1-800-667-4515, www.combineworld.com

1985 VERSATILE 4700 25' SP, CAHR, 1439 hrs., like new canvases, good condition; Laurier 24' drive thru drill/ swather carrier. Offers. Call 306-338-2927, Wadena, SK.

NH HW325 SALVAGE cab, axle, engine, lots of good parts. Call 1-800-667-4515 or visit www.combineworld.com

SWATHER ACCESSORIES 4148

FLEXI-COIL SWATH ROLLER, like new condition. Call 306-493-9393, Dodsland, SK.

DOEPKER DRIVE ON Transport, nearly new tires, very good condition, \$3500. 306-561-7780, Davidson, SK.

WANTED: GOOD USED MacDon header transport to fit 30' 972 MacDon header. 306-435-7893, Moosomin, SK.

FarmZilla CANADA'S AG-ONLY LISTINGS GIANT

2001 MACDON 972 25' header, Keer Shears, double swath, new knife, exc. shape. Call 306-435-7893, Moosomin, SK.

HONEYBEE WS30 HEADERS complete for swathers, starting at \$9980. Call 1-800-667-4515, www.combineworld.com

2014 CASE DH362 header 35', to fit CIH swather, like new, \$19,500. 306-861-4592, Fillmore, SK.

20' ELMERS BEAN windrower currently mounted on MacDon swather. Hardware available to convert to trailing drawbar unit. \$7000. Call 204-324-0254, 204-324-0090, Letellier, MB.

SWATHER ACCESSORIES 4148

PICKUP REEL PARTS



ORIGINAL HART CARTER

H/H VARIOUS 4151

2008 JD 7500 forage harvester, 216 original hrs., 4WD, ProDrive, corn header, PU header, auto greaser, shedded, new condition. 204-851-0745, Elkhorn, MB.



14 WHEEL FARM-KING hay rakes, set-up and ready to go, can pull two 18' swaths together. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

COMBINES

CASE/IH 4160

1994 1688 CIH, 30' cutting header, PU reel, PU guards, PU header w/transport. Call Neil Mohan 306-574-4208, Plato, SK

2004 CIH 8010, new chopper, feeder chain, pick-up & teeth rasp bars, 2899 eng. hrs., \$99,500. 306-287-7645, Watson, SK.

CIH 8010 CAB complete, in good condition, \$13,800. Call 1-800-667-4515 or visit www.combineworld.com

CIH 2388, w/pickup header, performance monitor, AFX rotor, straw chopper, recent work order, exc. cond., always shedded, \$47,000. 403-350-9088, Red Deer, AB.

2011 CASE/IH 8120, 3016 PU header, 800 hrs., deluxe cab, duals, exc. cond., \$240,000. Call 306-223-4417, Laird, SK.

3RD LIFT KIT. Upgrade your combine's lifting capacity by adding a 3rd cylinder. Complete kit with cyl., mounts and hoses. www.combineworld.com 1-800-667-4515.

2007 CASE/IH 7010, dual wheels, w/2016 header, \$170,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1480 CASE/IH w/PU header, recent engine overhaul, \$6000 OBO. 306-734-2932, 306-690-7227, Moose Jaw, SK.

2012 CIH 6088, 300 hrs, Pro 700 monitor, HID lights, 15' 3016 PU, Y&M, ACS, chopper, rocktrap, 3 spd. hydro. 204-776-2112, Boissevain, MB. hvisaac@icloud.com

2003 CIH 2388 AFX w/2015 header, field ready, very well maintained, long auger, hopper top, chopper, Pro600 with Y&M, 262 receiver, shedded, \$85,000. 306-869-7834, Ceylon, SK.

1996 2188 1015 header, IH PU, new belts, ultra control header height with lateral header control, 4900 eng., hrs, 3690 thrashing hrs. Speciality rotor with accelerated rotor auger conversion kit in stainless steel. Heavy cone, extended unloading auger, Redekop 250 on the back and internal chopper, Harvest Service concave, rear tires 80%, one new front tire the other 80%. \$24,000 OBO. Call 306-834-5035, or 306-834-7885, Kerrobert, SK.

2009 CASE/IH 9120, 1100 machine hrs., 1400 eng. hrs, 900/60/R32 tires, 2016 header, fine cut chopper, electric tarp, shedded, \$175,000; 35' MacDon 974 flex straight cut header, slow mover, split reel, fore/aft pea auger, \$23,000. Combine and both headers asking \$191,000. 306-862-5993, 306-862-7138, Nipawin, SK

1997 2188 with 1015 PU header, 4200 eng./3100 sep. hrs., yearly inspection, nice shape, 1999 1020 30', all for \$45,000. Call Frank 306-394-7000, Coderre, SK.

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1997 CASE/IH 2188, 3000 sep. hrs, auto HHC, chopper plus ready cut chopper, hopper extension, very good tires, rock trap, long auger, 2015 Swathmaster PU header, excellent, condition, \$29,500. 306-861-4592, Fillmore, SK.

1993 1688, 1015 PU, chopper, reverser, monitors, 1020 25' header, PU reel, carrier, \$20,000. 204-362-1024, Manitou, MB.

CASE 80/88 4WD

Complete 4WD Kit including tires, rims, axle, motors & hyds. Off Case IH 2388..... \$15,000

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www.combineworld.com

2012 CIH 8230, 1301 eng. hrs., 868 rotor hrs., exc. cond., field ready. 780-872-8209, 306-823-4456 Neilburg, SK.

1995 INTERNATIONAL 2188, 3044r/3957e hrs., chopper, Kirby spreader, 1015 header, Rake-U PU, hopper extension, new parts (\$2000), long auger, c/w 1020 flex header, new knife and reel bushings, header mover, rubber mint, well maintained, retired, \$42,500 OBO. Call 306-252-2810 or 306-567-7281, Kenaston, SK.

2002 CASE/IH 2388 axial flow, 2160 eng. hrs., Big Top hopper, long auger, 2015 PU header, 1620 rotor hrs., SwathMaster PU, AFX rotor, 30.5x32 tires, CNH 8.3L, S/N JJC0271599, good condition, \$54,900 OBO. Phone 306-374-5887, Clavet, SK.

CASE/IH 1640 combine, 1900 hrs., good condition, always shedded, \$10,000 OBO. 306-781-2904, Lajord, SK.

1990 CIH 1680, all updates, vg cond, 4500 hrs, PU & PU header. Norm 306-857-2117, 306-867-3998, Strongfield, SK.

2008 8010, 1398 sep. hrs., long auger, loaded, 2016 PU, new rotor & concaves, \$40,000 red light just completed, shedded, premium cond. Terre Bonne Seed Farm, 306-921-8594, 306-752-4810, Melfort, SK.

2000 CASE/IH 2388 w/1015 header, \$65,000; 2004 2388 w/2015 PU header, \$115,000; 2006 2388 w/2015 PU header, \$130,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

CATERPILLAR LEXION 4166

LEXION 4WD
Complete 4WD Kit including tires, rims, axle, motors & hyds. Off Lexion 580R..... \$18,000
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2002 LEXION 480R, 3212 eng./ 2021 sep. hrs., MAV chopper, Precision PU header, Y&M, chaff spreader, Cebis monitor, 3D sieve, \$60,000. Possibly a MacDon 974 flex 36' draper avail. 204-247-0388, Roblin, MB.

FORD/NH 4172

1991 NH TX36, w/newer Sunnybrook cylinder and new feeder chain, 2770 hrs., \$25,000; NH 971 24' straight cut header, \$4900. 204-638-8443, Dauphin, MB.

2011 NH CX 8080 Combine, 1731 eng. hrs., 1309 separator hrs., always shedded, GPS mapping & AutoSteer, New Holland Service Plus done in Dec. 2016, field ready, exc. cond. for the year and hrs. \$180,000 OBO. You can contact Mike at 403-651-2273 or Doug at 403-650-6086. Acme, AB.

1998 NH TR98, 2381 sep hrs, new feeder chain & belt, bearings, grain tank liner, torque sensor hubs, springs, gearbox bearings & output shaft, rotor drive hubs, vg cond., \$32,000. gleia@wolffleia.ca. Prince Albert, SK. 403-870-0091, 403-265-4122.

2007 NH CX 8070 Combine. 2037 eng. hrs., 1512 separator hrs., always shedded, GPS mapping, New Holland Service Plus done in Dec 2016, field ready, very good cond., \$150,000 OBO. Call Doug at 403-650-6086 or Mike at 403-651-2273. Acme, AB.

2009 NH 9070, 1793/1474 hrs, Intelli-View II display, Y&M, remote sieve adjust, elec. stonetrapp, duals, diff. lock, long auger, PSD, deluxe chopper, chaff spreader, c/w 76-C 14' Swathmaster PU plus 2003 NH 94-C 36' draper header, fore/aft, split PU reel, single knife drive, gauge wheels, transport, all stored inside, \$180,000 OBO. Call 780-608-9290, Strome, AB.

NH TR99, SWATHMASTER pickup, factory duals, Redekop MAV chopper, all options, s h e d d e d, f i e l d r e a d y, \$ 4 3, 5 0 0. 403-350-9088, Delburne, AB.

1999 TX68 NH combine, 2000 eng. hrs. Mostly new bearings and belts, \$18,500. norcanseed@yahoo.com Call Nate 204-372-6552, Fisher Branch. soybeanflax.com

2006 NH CX860, 1706 thrashing hrs., 2268 eng. hrs., Sunnybrook cylinder & concave, shedded, exc. cond., field ready, \$119,000. 204-445-2382 evenings, Langruth, MB.

2004 NH CX860 w/76C header, 2131 thrashing hrs, 2660 eng. hrs, regular maintenance, field ready. Larry 204-638-8384 (call), 204-638-1044 (text), Dauphin, MB.

TR85 HYDRO, always shedded, 2500 hrs, near new rubber, \$7900. Pro Ag Sales, 306-441-2030 anytime North Battleford SK

GLEANER 4175

1985 GLEANER N7; 1984 Gleaner N7 and 1984 Gleaner N6. All 3 combine are in excellent field ready condition. Phone 306-675-4419, Ituna, SK.

1998 GLEANER R62, 2460 eng. hrs., 1878 thrashing hrs., PU header, Turret unloader, 8.3 Cummins, shedded very good condition, \$48,000. 306-867-7847, Outlook, SK. Email gairthweirterman@gmail.com

GLEANER R72 & R62 SP combines for sale: R72 has 2089 thres. hrs., Cummins motor, excellent shape, recent work orders, field ready, always shedded, \$36,500; R62 has 1680 thres. hrs., optional bigger motor & drives (make it same size as the R72), very nice shape, also shedded, work orders, field ready, \$26,500. Both c/w PU headers. Phone 403-664-0735, Sibbald, AB.

2000 R62, 8.3L Cummins eng., 3053 sep. hrs., c/w header, 12' Swathmaster PU, nice cond., field ready, \$35,000. Call for details 306-961-8291, Prince Albert, SK.

GLEANER S77 SALVAGE, duals, pickup and many good low hour parts still available. Call us now! 1-800-667-4515 or visit: www.combineworld.com

GLEANER L2 COMBINE, hydro, c/w 20' straight cut header, runs good, \$3000 OBO. 204-685-2864, MacGregor, MB.

JOHN DEERE 4178

1998 JD 9610, singles, 3278 hrs, \$40,000. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2004 JD 9760 STS, 3061 hrs., 800/65R32, large wire concave, wide spread chopper, \$90,800. Call South Country Equipment, 306-726-2155, Southey, SK.

2008 JD 9770, duals, 1708 sep hrs, \$152,600. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2013 JD S690, 730 sep. hrs., 615 PU header, 520x42 duals, powercast tailboard, ProDrive, power fold hopper ext., \$15,000 w/o, \$319,000. 306-948-7223, Biggar, SK.

2009 JD T670, 1552 thres. hrs, 615 PU, JD Reman engine 2016, Greenlight 2017, 800/65R32, AutoTrac ready, 2016 chopper knives, shedded, very good condition, \$199,700 OBO. 204-729-1731, Rivers, MB.

2004 JD 9860 STS, 2619 hrs., 20.8x42, Kuchar bar bars, MAV chopper, Redekop chop, \$125,100. Phone South Country Equipment, 306-726-2155, Southey, SK

2005 JD 9760 STS, w/2014 JD 615P PU header, 340 HP, 520/85R42 duals, 1585 thrashing hrs. Harvest ready, \$120,000. 780-871-3963, Paradise Valley, AB.

2014 JD 5680 STS, 800 sep. hrs., big duals, chopper, folding hopper top, vg cond., \$255,000. Neil 306-231-8300, Humboldt.

JD FINAL DRIVES: Used and rebuilt for 9400-9610, CTS & STS. Sold w/warranty. 1-800-667-4515, www.combineworld.com

2007 JD 9660 WTS, 1100 sep hrs., 615 PU new rub bars, shedded, very good cond. 780-877-2339, 780-877-2326, Edberg, AB.

2008 JD 9760STS, 2130 hours, Contour Master, 800/70R38, bullet rotor, small wire con, \$119,000. Call South Country Equipment, 306-726-2155, Southey, SK.

JOHN DEERE 4178

2009 JD T670, singles, 1419 sep hrs, \$177,900. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

1998 JD 9610, singles, 3692 hrs, \$40,000. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2006 JD 9860 STS, 2038 hrs., 20.8-42, HID lights, premium header control, fore/aft, \$136,900. Call South Country Equipment, 306-726-2155, Southey, SK

2014 JD S680, duals, 641 sep. hours, \$420,000. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2009 JD 635D, hydra float, 35' draper header, PU reel, hyd. fore/aft, dbl knife drive, factory transport, poly skids, new canvas, low acres, exc. 306-338-3647, Wadena, SK.

2014 JD S670, duals, 459 sep. hours, \$399,000. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2009 JD 9870, singles, 1458 hrs, \$197,900. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2009 JD 9770, 1393 hrs., Contour-Master feeder house, AutoHeight control, AutoSteer ready, Firestone rubber, camera system, electric roll tarp, vg, always stored inside, \$180,000. 306-859-7804, Beechy, SK.

2001 JD 9650W, 3720 hrs, \$66,000. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2003 JD 9650 STS, 3141 hrs., 20.8Rx38, Dial-A-Speed, hydraulic fore/aft, hopper top, \$85,800. Call South Country Equipment, 306-726-2155, Southey, SK

2001 JD 9650 STS, 2843 thrashing hrs., 4108 eng., 18 hrs. since Greenlight, 2 sets of concaves, very nice, \$77,000. 306-648-2801 or 306-648-7848, Gravelbourg, SK.

2004 JD 9660 STS, Integrated AutoSteer, Mud Hog RWA, Heavy Duty feeder house drive and lift cylinders, 2 sets of concaves, HID lights, Maurer Hopper Topper, stored inside. John 204-324-4018, Altona, MB.

1997 JD 9400, 2114 eng. hrs., 1626 sep. hrs., ext. range cyl. drive, Y&M, long auger, new: PU belts, feeder chain, rub bars and concave, straw chopper, spreader, 914 PU, exc. cond., \$50,000. Call Dave Klein, 306-957-4312, 306-695-7794, Odessa, SK.

STRAW WALKER COMBINE, ideal for baling: 2006 JD 9660 WTS, 914 PU header, 2300/1550 hrs., \$132,500. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2012 S670 folding hopper ext., no DEF, crop catcher, 960/1106 hrs., \$245,000; 306-649-2432, 306-222-7578, Marcellin SK

2010 JD 9770 w/215 PU, 1200 sep. hrs, fully loaded, duals, Michel's cover, shedded, Greenlighted in 2016, \$208,000. Steven Brewster, 306-731-7235, Earl Grey SK.

JD 7720 TITAN II with 212 PU header and 224 straight cut header, field ready, \$14,500. 306-835-7830 cell, Punimchy, SK.

2008 JD 9770 STS SR, 1287 engine hrs., reverser, integrated chopper/chaff spreader, command center, Y&M, exc. cond., \$175,000. 306-753-7575, Cactus Lake, SK.

JD 9650 STS c/w 914 PU, 1893 hrs., new teeth & belt on PU, long unload auger, field ready, shedded, Sunnybrook sectional concaves, Greenstar monitor. Call/text Trent: 403-934-8765, Standard, AB.

2008 JD 9870, duals, 1861 sep hrs, \$166,500. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

JD 7721 PT Titan II, very little acres last in five years, needs a gearbox, shedded, open to offers. 306-577-7164, Kisbey, SK.

2005 JD 9660 STS, 2896 hrs., 800/65R32, deluxe header controls, GreenStar, \$88,500. South Country Equipment, 306-726-2155, Southey, SK.

2005 JD 9660 STS, 615 PU, duals, Contour-Master, shedded, 2220 sep. hrs., serviced and Greenlighted, vg cond. \$87,500 firm. 780-853-7248, Dewberry, AB.

2010 JD 9870 STS, 2794 hrs., 20.8x42, large wire concave, Maurer 60 bu. hopper, \$167,600. South Country Equipment, 306-726-2155, Southey, SK.

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JD 7720 TITAN II combine, shedded, 4324 hrs., field ready, \$10,000; JD 580 25' PT swather, excellent condition, \$1000. 306-331-7749, Fort Qu'Appelle, SK.

2004 JD 9660 STS, 2100 thrashing hrs., TouchSet, deluxe header controls, Precision header w/Swathmaster PU, inspection just completed, greased and ready for the field, vg cond., \$95,000 OBO. 306-843-7525, Wilkie, SK. bjbauml@sasktel.net

2014 JD S670, 435 sep. hours, \$400,000. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2006 JD 9760 STS, 2910 hrs., 480/70R30, 800 singles, GreenStar, TouchSet concave, \$84,000. South Country Equipment, 306-726-2155, Southey, SK.

2005 JD 9660 STS, 2139 hours, new: feeder chains, sprockets, return chain and hammers, \$112,700. Call South Country Equipment, 306-726-2155, Southey, SK

JD 9870, lateral lift feeder house, power-cast tailboard, 995 engine hrs., 615 sep. hrs., near field ready, \$248,000 OBO. 306-774-5877, Swift Current, SK.

2010 JD 9770, duals, 1532 sep hrs, \$192,400 Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

JOHN DEERE 4178



TWO 2010 JD 9870's: 1440 & 1404 sep. hrs., 615 PU's. One has ProDrive. Both are excellent shape, field ready, always shedded, asking \$200,000 each. 306-435-6900, 306-435-6104, stutt.farms@gmail.com Moosomin, SK.



2013 JD S690, 1830 eng./1174 sep. hrs., loaded w/all the premium features, incl. Harvest Smart, 400 bu. folding grain tank, 5 spd. feeder house, RWA, Rice and Cane tires all around, well maintained, always shedded, Extensive repairs wear parts, complete list can be provided, \$320,000. 204-612-6531, 204-981-3636, Cartier, MB.

1990 JD 9500 SP combine, 4770 eng./3582 sep. hrs., c/w 912 PU header and 930 rigid header, 3 year old UII PU reel and Bergen transport, very good cond, always shedded, \$38,000. 403-664-1006, Oyen, AB.

2004 JD 9760 STS, 3011 hrs., Outback AutoTrac, 800/70R38, Dial-A-Speed header control, \$93,000. Call South Country Equipment, 306-726-2155, Southey, SK.

2005 JD 9760, singles, 2149 hrs, \$118,500. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2004 JD 9860 STS, 1568 hrs, 480-42 duals, 18.4x26, high cap. unloading system, \$148,600. South Country Equipment, 306-726-2155, Southey, SK.

1990 JD 9400 combine, long unload auger, hopper top, fine cut chopper, chaff spreader, 914 PU, 2257 sep. hrs., 3005 eng. hrs., always stored inside, \$36,000 OBO; JD 922 flex header on transport, \$9000 OBO. Both in very good shape. Call 780-967-5666 780-446-8611, Onoway, AB.

2011 JD 9870, duals, 1400 hrs, \$239,000. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2009 JD 9670, loaded, w/PU header, 1500 hours, shedded, \$151,000. 306-625-7939, Kincaid, SK.

2008 JD 9770, duals, 1933 sep hrs, \$149,500. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2009 JD 9870, duals, 1780 hrs, \$187,000. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

1977 JD 7700 Turbo, 2800 org. hrs., new feeder chain, new sieve, like new front tires, recent new A/C compressor and PU belts, always shedded, exceptionally nice and straight all around, asking \$9500. 306-338-3369, Wadena, SK.

2008 JD 9770 STS, Greenlighted, Powercast tailboard shedded, high capacity lift cylinders, 38" duals, fully loaded. Call 306-463-8774, Kindersley, SK.

2013 JD S690, duals, 850 sep. hours, \$400,000. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2008 JD 9870, duals, 2269 sep hrs, \$146

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2011 MACDON D60S draper header, 35', 6 batt. PU reel, slow spd. trans., pea auger, new canvases, fits Case or NH, \$44,000, 780-841-1496, Fort Vermilion, AB.

2009 JD 615 PU header, 15'W, used very little, always shedded, asking \$22,000. 306-741-2649, 306-626-3236, Pennant, SK

2 TWIN HEADERS: 2007 Honeybee 36' drapers, PU reels, fits Claas combines. Very low acres, very good condition, always shedded, \$25,000/ea. 204-242-2263 or 204-825-7239, Manitou, MB.

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2012 MACDON 1052 45' Header, always shedded, low acres, hyd. fore/aft, hyd. tilt, PU reel, double knife drive, 4 available, \$40,000 each. 403-647-7391, Foremost AB

CASE/IH 1020 25' flex header w/PU reel, exc. cond., \$7500 OBO. 306-734-2932, 306-690-7227, Moose Jaw, SK.

WANTED: 30' FLEX header CHI 1020 in very good cond., w/trailer, 306-666-4606, or 306-662-7989, Fox Valley, SK.

1994 NH 971, 30' headers, one with PU reel, other unit batt reel, double knife drive, both in real good condition. Call 306-682-2338, Humboldt, SK.

1998 CIH 1010 30' header, hydro., fore and aft, batt reel, Gaterman lifters, used 1 year in the last 7, exc. cond., w/trailer. \$5500 OBO. 306-459-2720, Ogema, SK.

2015 JD 635FD Flex Draper, poly tine reel, conveyor auger, double drive, \$64,500 USD. Fairfax, MN. 320-848-2496, 320-894-6560, www.ms-diversified.com

2011 MACDON 45' FD70, split reel, double knife drive, gauge wheels, slow spd. trans., CIH or JD adapter, good cond. asking. 59,900. Delivery available. 204-324-427, Altona, MB. E-mail: lenens@mts.net

930 JD 30' header, batt reel w/transport, \$3500. Call 306-843-7021, Cando, SK.

COMBINE HEADERS 4199

2006 HONEYBEE 36' double knife, JD adaptor, one owner, \$22,000 OBO. Call 306-563-8482.

2009 MACDON FD70, 35', \$45,000; 36' Honey Bee, \$31,000. Both shedded, w/JD adaptors. 306-625-7939, Kincaid, SK.

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2012 MACDON FLEX draper header 45', cross auger, split reel, JD hook up, slow spd. transport, very good condition, field ready, \$72,000. Can deliver. Call any time 204-743-2324, Cypress River, MB.

2008 NH 94C 30' draper header, will fit CIH, CR, CX and NH combines, pea auger, fore/aft PU reel, transport, good cond., \$32,000. 250-782-0220, Dawson Creek, BC

JD FLEX PLATFORMS: JD 925 flex platforms, 25', steel divider, field ready \$10,900; JD 925, 25' poly divider, reconditioned, \$14,900; JD 925F, full finger auger, poly divider, reconditioned, \$16,900; JD 930F, f/f auger, field ready, \$17,900; JD 930F, f/f auger, reconditioned, \$18,900; 2004 JD 635 hydra flex, 35', field ready, \$14,900; 2007 JD 630 hydra flex, 30', reconditioned, \$24,900; 2008 JD 630 hydra flex, 30', reconditioned, \$25,900; 2009 JD 630 hydra flex, 30', reconditioned \$26,900; 2004 JD 635 hydra flex, 35', air bar, field ready, \$20,900; 2008 JD 635 hydra flex, 35', reconditioned, \$26,500; 2009 JD 635 hydra flex, 35', reconditioned, \$27,900; 2009 JD 635 hydra flex, 35', air bar, reconditioned, \$33,900; 2011 JD 635 hydra flex, 35', reconditioned, \$32,900. Gary Reimer, 204-326-7000, Reimer Farm Equipment, Hwy.#12 North, Steinbach MB

FLEX HEADS: JD 925, 930, CASE #1020 30'; #2020, 35'; 1010 PU header, \$3000. 1-866-938-8537, Portage La Prairie, MB

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WHITE MF 9230 30' straight cut header, fits White 9700, 9720 and MF 8570, 8590, \$4000 OBO. 204-794-5979, Springfield MB

JD 930 DRAPER header, c/w PU reel, new pea auger, built-in transport, prem. cond., limited use. 403-823-1894, Drumheller, AB

JD 930 FLEX Header, Poly Skids like new. Brand new sections, guards, and PU reel teeth. \$7500. 306-567-2978, Davidson SK.

2009 CIH 2142, pea auger, new canvases, exc. condition, w/slow speed transport, \$43,000. 204-744-2208, St. Leon, MB.

IH 1010 30' header, PU reel, new wobble box, knife and guards, \$6000. Call 306-483-7234, Carnduff, SK.

2002 HONEYBEE 36' with JD adaptor & pea auger, new knife, always shedded, vg cond., \$19,500. 306-948-9870, Biggar, SK.

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FLOATER TIRES: Factory rims and tires: John Deere 4045, 710/60R46, 19,500; 800/55R46, \$23,500; JD 4038, Case 4420, 650/65R38 Michelin tires and rim, \$13,500. Sprayer duals available. Phone 306-697-2856, Grenfell, SK.

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TILLAGE/SEEDING

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2010 BOURGAULT 3310 65', Paralink, 12" spacing, mid row shank banding, double shoot, rear hitch, tandem axle, low acres, \$140,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2010 SEED HAWK 60' Toolbar, 12" sp., w/Seed Hawk 400 cart, 2 fans, seed & fertilizer distributing kit auger. Also NH kit & winch \$170,000. 306-449-2255, A.E. Chicoine Farm Equipment Ltd., Storthoaks, SK.

AIR DRILLS 4250

2008 SEEDMASTER 50x12: Retiring, must sell this mint field ready unit! Stone fert., low acres, one owner, 2100 gal. free., 300 bu. seed. Smart Hitch, four cameras. \$100,000 OBO. 306-345-2039, Pense, SK.

2008 NEW HOLLAND SD440 51', 10" spacing on 3.5" steel packers, Dutch paired row openers w/SC430 cart, double shoot, variable rate, rear duals. Packers capped since new, all new bearings in 2017, original owner, very well maintained, asking \$80,000. 306-725-4286, Bulvea, SK.

MOON HEAVY HAUL pulling air drills / air seeders, packer bars, Alberta and Sask. 30 years experience. Call Bob Davidson, Drumheller, AB. 403-823-0746.

AIR SEEDERS 4253

MORRIS 6240 40' air seeder, 3 tanks, Technotill openers, 750 lb. trips, exc. zero-till or min. till, \$27,500. Can email pics. 204-437-4641 evenings, Sprague, MB

HARROWS/PACKERS 4256

2011 BOURGAULT 6000 mid harrow, 80', exc. cond., \$25,000 OBO. 204-647-4274, Dauphin, MB. wolff.ron.odile@gmail.com

2013 45' KELLY Harrows, CLI heavy chain, low acres, excellent condition, 204-764-0361, Decker, MB.

TILLAGE EQUIPMENT 4262

BOURGAULT 6000 medium harrows 90', \$25,000; Flexi-Coil 340 32' chisel plow c/w 4-bar harrows, anhydrous kit, \$16,000; Flexi-Coil 340 40' chisel plow, with 4 bar harrows, \$25,000. Dave 403-556-3992, Olds, AB.

KELLO-BILT 8' to 20' offset discs w/24" to 36" notched blades; Kello-Bilt 24' to 38' tandem wing discs w/26" and 28" notched blades and oilbath bearings. Red Deer, AB. www.kellohgs.com Call: 1-888-500-2646.

38' KELLO-BILT DISC 225DOW jumbo harrows, min tillage, \$69,500. Fisher Branch, MB. 204-372-6056, 204-280-1202.



ROME DISC MODEL TAW24-30, hyd. cyl., very little work since rebuild and new blades. C.W. (Bill) Ransom, 204-534-7255 or 204-534-7390, Boissevain, MB.

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IHC 6400 54' chisel plow, 12" spacing, new NH3, boots and openers, new hoses, new walking beam shafts, \$33,000. Nipawin, SK. 306-862-7138 or 306-862-5993.



NEW NOBLE 3000 32' stubble mulcher, hyd. trip shanks, shedded, excellent cond. Call 403-575-1146, Veteran, AB.

TRACTORS

CASE/IH 4286

2000 MX120, equipped w/new Quicke loader, 4400 hours; 2000 MX170, 4600 hrs., equipped w/new Quicke loader. Call 204-522-6333, Melita, MB.

2009 CASE/IH 435, Outback guidance, 710/70 tires, rear weights, std. trans., 4 hyds., 1700 hrs., shedded, asking \$163,000. Nipawin, SK. 306-862-7138 or 306-862-5993.

1985 CASE 2096 w/Leon 800 loader, new rubber, AC completely redone, always shedded. 306-728-3443, Melville, SK.

2011 CIH STS 535 ProQuad, w/non def Big Block Cummins eng., PS, air assist luxury cab, Pro 600, AutoSteer, 36" tracks, 5 hyds., tow cable, site glasses, 2986 hrs., shedded, \$289,000. 306-287-8292, 306-287-7707, Quill Lake, SK.

2006 CIH STX375, powershift, PTO, 1917 hrs.; 2009 STX335, c/w 6-way Degelman blade/guard, 1281 hrs.; Two 2013 Magnum 260, FWA, deluxe cab, leather, 320 hrs.; 2015 Magnum 280, FWA, CVT, deluxe cab, leather, 608 hrs.; 2014 Versatile 250, FWA, GPS, etc. Ph Dave 403-556-3992, Olds, AB.

1086 REBUILT ENGINE, gear pump, 80% tires, new paint, can be equipped w/2350 loader. Everything in mint condition. \$15,000 OBO. 780-645-2206, St. Paul, AB.

2013 140A FARMALL Case/IH w/loader, 1800 hrs., \$82,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

CASE/IH 4286

2016 CASE/IH PUMA CVT: 283 hrs. Unique Puma w/front TPH + PTO & Case/IH FEL, LED light pkg, Deluxe cab & seat, 50km/hr., 4 remotes, cab and front axle susp., CVT trans., 650/65 R42 rear, 540/65R30 Michelin's, heated w/elec. mirrors, 1000/540/540E PTO, spd. shiftable from in cab, fender PTO control, wheel weights, new cond., \$158,750 OBO. Call 306-861-2500 or email: kruitenterprises@gmail.com Weyburn, SK.

1996 CASE/IH 9370 Steiger 4WD, triple 20.8R42's, Ez-Guide 500 auto steering & GPS Nav. w/display, 5445 eng., hrs., N14 Cummins 360HP 12 spd. synchro range trans., all clutches in exc. cond., 4 sets remote hyds. with new quick couplings, S/N JEE0037740, very clean, excellent cond., \$74,900 OBO. 306-374-5887, Clavet, SK.,

IHC 5488 TRACTOR, new dual tires, low hours, 189 HP, excellent condition. 403-823-1894, Drumheller, AB.

2006 CASE MX285, 260 HP, 3PTH, 4 hyds., 3 PTO speeds, 6700 hrs., duals all around, exc. shape. 204-573-5780, Isabella, MB.

STEIGER 4289



1986 STEIGER COUGAR CR-1225 4WD great tractor, 6700 hrs., Cat 3306, 225 HP powershift, new rubber, PTO. \$35,000 OBO. 587-579-6669, Camrose, AB.

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JOHN DEERE 4295

1983 JOHN DEERE 4450 MFWD w/Ezee-On FEL 2130 grapple, 15 spd. PS, 3 hyds., 7925 hrs. showing, 14.9-26f, 20.8R32, duals available. 306-283-4747 or 306-291-9395, Langham, SK.

2003 JD 6920 MFWD, front suspension, IVT transmission, 5700 hours, \$50,000. 204-648-7129, Grandview, MB.

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WRECKING FOR PARTS: JD 8850 4WD, c/w (8) 24.5x32 Goodyear Dyna Torque 80+ % tread, vg sheet metal; Case 2670, vg engine; Case 1570, vg engine; A/C 7050, good engine, 3PTH; MF 298, 3PTH. 1-877-564-8734, Roblin, MB.

1985 4650, MFWA, 7300 hrs., 1000 PTO, 50% duals, PS, Raven GPS, recent w/o, LED lights, new batteries, very clean and reliable, \$44,000. 780-208-4808, Two Hills

2003 JD 7810, 4500 hrs., never winter used, never had loader, loaded, 20 spd. quad, 3PTH. 780-990-8412, Edmonton, AB

2011 JD 9430, 3780 hrs. Hi-Flow 78 GPM, 5 hyds., 710-70R 42 duals, Deluxe cab, PTO, exc. cond. Call Carl 306-398-7713 for more info or pictures. Cut Knife, SK.



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1983 JD 8450 4WD, quad shift, PTO, 8200 hrs., \$22,250 OBO; 12' Degelman bulldozer to fit, \$3200. 306-275-4446, St. Brieux, SK.

2004 JD 6715, with FEL, 3 PTH, 110 HP, 4950 hours, very good condition. Call 306-773-7122, Swift Current, SK.

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2013 JOHN DEERE 5085, 4WD, only 103 hrs., cab, self-leveling loader, front & rear blades, excellent cond., \$83,000. Olds, AB., 403-556-2644, halutz2644@hotmail.com

JD 4230, 100 HP Quadshift, dual PTO hyd. 18.4x38 tires, \$13,000. 204-525-4521, Minitonas MB www.waltersequipment.com

2002 JOHN DEERE 9520, 4 WD, 6000 hrs., powershift, diff. lock, weights, AutoTrac, 800 Firestone duals, \$139,500 OBO. 306-621-8352, Jedburgh, SK.

JOHN DEERE 4295

1995 JD 8100, MFWD, 840 loader, PS, new tires, 9043 hrs., excellent condition, \$76,000. 306-472-7704, Woodrow, SK.

2013 JD 9560R 4WD, 670 hrs., like new, deluxe cab, 5 remotes, GreenStar ready, hi-flow hyds., 520 triples at 95%, weight pkg., drive shaft shield update done, always shedded, oil changed every 100 hrs. and greased daily when used. Serviced and ready to pull. Pics available upon request. Exc. cond. \$265,000 USD. 701-571-2391, Fortuna, ND. waynech@nemont.net

JD 7730 MFWD, IVT, 1325 hours. 4 hyd., dual PTO, GreenStar ready, rear duals and weight, \$135,000 OBO. 360-537-3780, McLean, SK.

2010 JD 9630, 530 HP, Michelin 800/70R38 tires, JD AutoSteer, \$239,000. 306-563-8765, Canora, SK.

1976 JOHN DEERE 4430, great running tractor, good rubber, PTO good condition. \$11,500 OBO. 587-879-6669, Devon, AB.

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2009 JOHN DEERE 9430, 4WD, 425 HP 24 spd., 4 hyds., 710/70R42 duals, 4257 hrs., original owner, nice condition, asking \$185,000. 306-725-4286, Bulvea, SK.

1981 JD 4640 w/707 Leon loader, 6600 hrs., 3 hyds., dual PTO, Quad Shift, single tires, \$24,900. 306-948-7223, Biggar, SK.

2008 JD 7230 Premium, MFWD, 3 PTH, 3 hyds. w/JD 741 FEL, bucket and grapple, 2677 hrs., vg condition. 306-625-7277, Stewart Valley, SK.

2005 JD 7220, IVT trans., 3 PTH, 741 loader and grapple fork; JD 7710, FWD, left-hand reverse, 3 PTH. 780-674-5516, 780-305-7152, Barrhead, AB.

2000 JD 7710, 5130 hrs; 2000 JD 8100; 2002 JD 7810; 1996 JD 8100. All MFWD, can be equipped with loaders. 204-522-6333, Melita, MB.

2000 JD 7810, FWA, Powershift, c/w 360H loader, GPS, new tires, \$76,500. Call Henry 403-588-0958, Alix, AB.

2009 JD 7830 w/746 loader, grapple, 3 PTH, light pkg, power quad trans, 540/1000 PTO, Michelin single tires, 2079 hrs., exc cond. 204-734-3728, 204-734-8662, Swan River, MB. tgjersak@gmail.com

MASSEY FERGUSON 4301

2006 MF 1528 4 WD, hydrostatic trans., c/w MF 1520 loader, 60" bucket, 258 orig. hrs., asking \$14,995. Call 780-739-8084, 780-554-4736, Leduc, AB.

MF 1155, 140 HP 6000 hrs. (3800 on new eng.), 4 new tires, A/C, vg, \$10,900. Cam-Don Motors Ltd, 306-237-4212, Perdue, SK

MF 90 w/LOADER; MF 1100 w/loader; Case 2290 w/loader. 306-283-4747, 306-220-0429, Langham, SK.



1975 MF 1135, 120 HP AC, rebuilt engine, rad., piston sleeves, turbo fuel pump and injectors, shedded, vg, \$15,900. Cam-Don Motors Ltd, 306-237-4212, Perdue, SK.

NEW HOLLAND 4304

NH T8030 MFWD, premium 2010 PS duals front & back, 3900 hrs, 300 HP PTO, shedded, awesome for grain cart, \$120,000. Steven Brewster, 306-731-7235, Earl Grey.

1999 NH 9482, Cummins M11 motor, 310 HP, 20.8R38 tires 70%, 10,400 hrs., no PTO, \$44,000. 306-236-7445, Goodsoil, SK

2015 NEW HOLLAND T7.170 AutoCommand, MFWD, 1150 hrs., 50km/hr., 4 remotes, Intelliview, 4 monitor, front axle & cab susp, climate control, 1000/540/540E PTO, shiftable from in cab, PTO/remote fender control, elec. heated mirrors, front bumper weights, 650/65R38 rear, 540/65R28 front tires. Tractor is in absolute mint condition, \$119,500 OBO. For more info please call 306-861-2500 or email: kruitenterprises@gmail.com Weyburn, SK.

FORD 4307

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2005 MCCORMICK MTX120 w/Quicke loader, 3100 hrs.; 2006 MTX150. 204-522-6333, Melita, MB.

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LOADERS/DOZERS 4322

DEGELMAN 6600, 14' blade, manual angle, c/w mesh, mounts for JD 9320; Degelman 5900, 14' blade, 6-way, c/w mesh, mounts for JD 8410 MFWD, excellent condition. 780-679-7795, Camrose, AB.

MISCELLANEOUS 4325

12 VOLT ELECTRIC fuel pump, used in a slip tank, with hose and nozzle, \$250. 306-259-4430, Young, SK.

1986 JD 7721 Titan II combine; Versatile 4400 24' swather, gas, with pickup reel; (2) Goebel 2300 bu. hopper bins on skids, 1 w/3 HP fan & propane burner; (2) Goebel 2500 bu. bins on wood floor; Metal Industries Ltd. 2700 bu. hopper bin on skids; Westeel 1650 bu. hopper bin on skids. 306-365-4643, Lanigan, SK.

2011 MACDON A-30D 16' sickle mower conditioner w/stub guards, low acres. \$22,500. Photos. 306-542-8517, Togo, SK.

FORD 750 w/20' B&H, rollover tarp, \$8500; Vac tank, 1800 gal. and pump \$8000; IHC Model 252 forklift, gas, \$5000. 306-304-1959, Goodsoil, SK.

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BLACK ANGUS 5010



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POLLED PB THICK Butt Salers yearling bulls, exc. disposition, tested. Also replacement heifers. DynaRich Salers. Richard Andersen, 403-746-2919, Eckville, AB.

TEXAS LONGHORN 5225

ALBERTA TEXAS LONGHORN Association 780-387-4874, Leduc, AB. For more info. www.albertatexaslonghorn.com

TEXAS LONGHORN PRODUCTION Consignment And Ranch Horse Fall Select Sale, Saturday, Nov. 18, 2017, 1:00 PM, Crossroads Centre, Oyen, AB. All classes of Longhorns: Reg., commercial and cross breeds. Also ranch broke horses 3 yrs. old and older. Entry date by Sept. 15th. For entry form/ info. call Ron Walker, Redcliff, AB. 403-548-6684 res., 403-528-0200 cell, walkersu7texaslonghorns@gmail.com Website: www.walkerslonghorns.com

WELSH BLACK 5235

WELSH BLACK- The Brood Cow Advantage. Check www.canadianwelshblackcattle.com Canadian Welsh Black Soc. 403-442-4372.

CATTLE VARIOUS 5240

300 RED AND BLACK Angus 1250 lbs. heifers with calves. Call 306-773-1049, 306-741-6513, Swift Current, SK.

HERD FOR SALE: Due to health we are putting our complete herd up for sale. Consists of 160 Simm/Angus cross, (ages from 2-7 years), 35 bred heifers and 2 Angus bulls, to start calving in February. Will keep til Nov. 204-722-2107, McAuley, MB.

100 THIRD TO FIFTH Black Angus cow/calf pairs. 306-773-1049, 306-741-6513, Swift Current, SK.

29 COW/CALF PAIRS, calves at foot, Angus/ Hereford mix, \$3000. Please call 306-867-8446, Outlook, SK. Email: Petesvalley@sasktel.net

CATTLE WANTED 5245

WANTED: CULL COWS and bulls. For bookings call Kelly at Drake Meat Processors, 306-363-2117 ext. 111, Drake, SK.

CUSTOM COW WINTERING available for 400-500 head. Call 780-806-8712 or 780-806-8670, Edgerton, AB.

HORSES AUCTION SALES 5305

31st ANNUAL ROCKING W Horse Sale, Sat. Sept. 2nd, Keystone Centre, Brandon, MB. Rick 204-325-7237. www.rockingw.com

MBPB LOUD AND PROUD Foal and Horse Sale, Sept. 16, 1 PM DST, at Spot A Quarter Arena, Pierson, MB. 204-634-2375 for info. www.mbpainhorsebreeders.com

CANADIAN 5327

REGISTERED TEAM OF CANADIAN horses, gelding's 15 yrs. old., all black, 15 HH, so well matched that you can't tell them apart! Sound in every way, feet excellent, weigh approx. 1450 lbs./ea., well broke to drive, used on sleigh rides, pull mowers and hay rakes, \$7200 for the team. 250-785-5073, Charlie Lake, BC.

PAINT 5390

STALLIONS, GELDINGS, MARES. Phone: 306-283-4495 (evenings), Langham, SK. www.livingwaterpaintsandquarters.com

2017 PAINT COLT, out of black breeding stock mare, sired by buckskin quarter horse stallion, bloodlines lead to Major Bonanza, asking \$550. Phone 306-865-4168, or 204-724-2623, eves. Can text pictures.

PERCHERON 5400

ONE BLACK PERCHERON GELDING, 15 years old., 16.2 HH, well broke to drive, beautiful horse, easy to catch! \$2500. Phone 250-785-5073, Charlie Lake, BC.

QUARTER HORSE 5415

11 YR. QH gelding, 15.3 HH, broke to ride, quiet, \$1800 OBO: Yearling filly buckskin colt, \$500. 306-281-8440, Saskatoon, SK.

HORSE SALE: 20TH Annual September Showcase. Moose Mountain Ranch selling over 50 head of exceptional prospects, Sept 9, 1 PM. OBO. Weyburn Livestock Exchange, SK. www.septembershowcasesale.com

REDUCTION SALE OF REG. QH's for J.W. Quarter Horses Inc. N over Lazy left V left thigh. The mark of excellence! Selling: weanlings, yearlings, 2 and 3 yr olds started and unstarted. All reg., branded, dewormed and halter broke. Bloodlines: King Leo Bar, Lynx West, Doc Bar. \$1000 and up. John Isley 780-674-3446, Barrhead, AB. Email jwquarterhorses@xplornet.com Website: www.jwquarterhorsesinc.com

HORSES VARIOUS 5460

WANTED, DRIVING HORSES: must be well broke to handle, harness, catch load, trim. Under 16 HH, guaranteed sound, single or team considered. Fjord preferred, other breeds considered: WANTED: Draft horse, 17 to 18 HH, 2200 lbs., Percheron preferred, not for pulling or meat. 403-874-7616, Irricana, AB.

HARNESS/VEHICLES 5470

HORSE COLLARS, all sizes, steel and aluminum horseshoes. We ship anywhere. Keddie's, 1-800-390-6924 or keddie.com

SHEEP AUCTION SALES 5505

WINNIPEG LIVESTOCK AUCTION Special Ethnic Sheep, Lamb, & Goat Sale. Wednesday August 16th at 1:00 PM. This is a week away from the largest Muslim holiday sacrifice before Eid al-Adha. Last year we have seen a 15-30 cent premium. Extra local, and eastern buyers and orders on the market. Assembly point and transportation assistance for producers on the west side of the province. Delivery of livestock from Tuesday 8:00 PM to sale time on Wednesday. For more information or to consign, call Mike at 204-694-8328.

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SHEEP VARIOUS 5590

CANADIAN CO-OPERATIVE WOOL Growers, buying wool. For nearest wool collection depot or livestock supplies catalogue, 1-800-567-3693, www.wool.ca

SHEEP WANTED 5595

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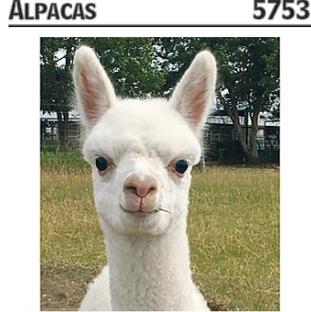
POULTRY POULTRY VARIOUS 5740



BROWN AND WHITE Novogen Layers, ready end of August. Hardy and good egg production. 306-225-4446, Hepburn, SK.

PUREBRED AND CROSSBRED Bird and Small Animal Auction, Sunday, Sept. 17, 11:00 AM, at the Weyburn Ag Society Building, Exhibition Grounds, Weyburn, SK. To consign call Charlotte 306-861-6305.

SPECIALTY ALPACAS 5753



ALPACAS FOR SALE, farmed for their fibre, Easy, gentle livestock, perfect for family venture or acreage living. 306-725-7243, Strasburg, SK. Visit: www.countryvista.ca

ELK 5760

NORTHFORK- INDUSTRY LEADER for over 15 years, is looking for Elk. "If you have them, we want them." Make your final call with Northfork for pricing! Guaranteed prompt payment! 514-643-4447, Winnipeg, MB.

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LIVESTOCK EQUIPMENT 5790

2002 521DXT CASE payloader with grapple fork. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

IHC 8840 14' auger and tub guards, 2279 hours, \$20,000. 403-932-2131 days only, Cochrane, AB.

STOP WASTING GRAIN! Try our grain troughs: 30' c/w skids, made of conveyor belting and pipe, \$750 ea. 306-538-4685, 306-736-7146, Kennedy, SK.

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NEW HOLLAND 353 MIXMILL, asking \$2000. Call 306-422-5585, St. Louis, SK.

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FFS- FUCHS FARM SUPPLY is proud announce that we are the new Farm Aid Manufacturing Dealer for Sask. Stocking mix wagons and a full supply of parts. 306-762-2125, Vibank, SK. www.fuchs.ca

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LIVESTOCK EQUIPMENT 5790

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MISC. ARTICLES 5850

USED PIPE, SUCKER RODS: 2 3/8", 2 7/8", 3 1/2" pipe, \$36 ea. 7/8", 1" sucker rods, \$12 each. 306-460-7966, 306-460-4166, Kindersley, SK.

ORGANIC PRODUCTS

CERTIFICATION SERVICES 5943

WANT THE ORGANIC ADVANTAGE? Contact an organic Agrolgist at Pro-Cert for information on organic farming: prospects, transition, barriers, benefits, certification and marketing. Call 306-382-1299, Saskatoon, SK. or info@pro-cert.org

GRAINS 5947

WANTED: ORGANIC LENTILS, peas and chickpeas. Stonehenge Organics, Assiniboia, SK., 306-640-8600, 306-640-8437.

PERSONAL VARIOUS 5952

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ARE YOU SINGLE and would rather be in love? Camelot Introductions has been successfully matching people for over 23 years. In-person interviews by Intuitive Matchmaker in MB and SK. Call 306-978-LOVE (5683), 204-257-LOVE (5683) www.camelotintroductions.com

PETS

THE ANIMAL PEDIGREE ACT No person shall, without an express statement that the animal's registration, identification or status as a purebred is from a jurisdiction other than Canada and that the animal will not be registered or identified in Canada by the person, sell, as registered or identified, or as eligible to be registered or identified, or as a pure-bred, any animal without providing to the buyer thereof within six months after the sale the animal's duly transferred certificate of registration or certificate of identification. Any person who contravenes any provision of this Act or the regulations (a) is guilty of an offence punishable on summary conviction and is liable to a fine not exceeding twenty-five thousand dollars; or (b) is guilty of an indictable offence and is liable to a fine not exceeding fifty thousand dollars. For further information contact: Canadian Kennel Club Etobicoke, On.

WORKING DOGS 5973

AUSTRALIAN SHEPHERD PUPS, good agility prospect, parents have good working instincts, first shots, ready July 22. 700-850, Debden, SK. Call or text 306-468-4545 or bar649@hotmail.ca

REGISTERED BORDER COLLIE pups, Sire Scottish import, son of 2010 International Champion, top working stock. 780-941-3843, New Sarepta, AB.

TRUE BLUE HEELERS has female puppies available! From great working parents. 1st shots and de-wormed, \$400. 306-492-2447, 306-290-3339, Clavet, SK.

TRI-COLORED BORDER Collie puppies 8 females, 1 male. First shots, dewormed, microchipped. Out of working parents, references available. Davey Cattle Company Ltd., 306-843-7606, Wilkie, SK.

REAL ESTATE

B.C. PROPERTIES 6110

BRITISH COLUMBIA RANCH: Cariboo Region 1374.3 ac. ranch. Beautiful home site on Green Lake North Road. Beautiful view of Green Lake to the Marble Mountains. Shared airstrip. 9 properties in total. Frontage on Round Lake & Boyd Creek. For sale by owner. \$2,200,000. 250-456-7341, 250-456-7727, 70 Mile House, Green Lake, BC. searon@bcinternet.net

COMMERCIAL BUILDINGS/LAND 6115

FORMER CAR DEALERSHIP in Canora, SK. Approx. 4 acres of land, 11,200 sq. ft. building, 12' showroom ceiling, 15' shop, 2 overhead doors, air compressor system, Phase II environmental available. \$575,000. Phone 306-621-8011.

COTTAGE/LOTS 6125

RESIDENTIAL LOT, ELBOW, SK for sale. Lot 7, Blk 2, Plan 88MJ6836, 125 Putters Lane. One block from golf course. 24.5 Meter frontage. Serviced by town. Will consider trade of RV, boat, truck, car, etc. \$29,500. Call Gerry 403-389-4858.

NEED a back yard retreat? We have tiny pre-built log cabins ready to be loaded onto your trailer. Plug and play models! Also log cabin logs and log siding. Call Rouck Bros., Lumby, BC., 1-800-960-3388 or visit: www.lumbyros.com

HOUSES/LOTS 6126

LOG AND TIMBER HOMES, Saskatoon, SK. Visit www.backcountryloghomes.ca or call 306-222-6558.

CANWOOD, SK. 2 + 1 bedroom bungalow, finished basement, fenced yard and shed, village has all amenities. Close to fishing, golfing and hunting. Seller motivated. Serious inquiries only. Call 780-913-1901.

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AFFORDABLE HOME, 3 bdrm, move-in ready w/finished basement, attached 2 car garage, large storage shop on 1/2 acre. \$84,000. Can email website. 306-571-9297 Buchanan, SK. yatesg@live.ca

MOBILE HOMES 6127

2011 MODULINE MODULAR, 20x761520 sq.ft., 3 bdrm, 2 bath in excellent shape! \$105,000 FOB Thorsby. 403-396-8509 delee@westerncanadianmodular.com

12X60 MOBILE HOME, 2 bdrms, newer appliances, w/10x12 porch. Best offer takes all. 306-482-5121, Carnduff, SK.

1992 TRIPLE E Mobile home, 16x70, fair shape, 2 baths, 3 bedrooms, as is blocking and skirting, plus large deck, 5 appliances, \$20,000 OBO. 403-740-4837, Endiang, AB.

YELLOWHEAD MODULAR HOME SALES, Canadian built by Moduline. Elite price event on now: 960 sq. ft., 2 bdrm, 2 bath, \$79,900; 1216 sq. ft., 3 bdrm, 2 bath, \$89,900; 1520 sq. ft., 3 or 4 bdrm, 2 bath, \$109,900. 306-496-7538, weekend calls. www.yellowmodularhomesales.ca

SELLING

WWW.MEDALLION-HOMES.CA modular homes/lake houses/RTM's. Visit our sales lot, or check online for stock, homes and all other plans. Factory direct orders built to your specs! Trade-ins welcome, buy and sell used homes. Hwy 2 South, Prince Albert, SK. Call 306-764-2121 or toll free 1-800-249-3969.

READY TO MOVE 6128



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READY TO MOVE MODULAR. Beautiful, well-kept, 1250 sq. ft., 3 bed., 2 bath single family home. Vaulted ceilings, large kitchen, jacuzzi off master bedroom, central air. Numerous renovations. \$85,000. 204-571-1254, elnicol@mymts.net

FARMS & RANCHES

BRITISH COLUMBIA 6131

1405 ACRED DEEP CREEK RANCH, located SE of Vanderhoof, being sold 'as is' including full line of equipment, furnished home and shop, Crown grazing license. Great cow/calf operation, \$1,295,000. Call Bob Granholm, Re/Max Quesnel Realty, your Cariboo Ranch Expert, 250-983-3372 bkgranholm@xplornet.com

IDEALLY LOCATED LOG HOME. Property offers an income suite downstairs with its own entrance. 71.75 acres. Hay and pasture field, \$549,000. 250-449-1982, Greenwood, BC. Email: bob.bordercountry@gmail.com soldbybob.ca

MARGUERITE RANCH (QUESNEL) 26 titles, 3095 acres deeded, 450+ cow/calf operation. Irrigated, 58,000 acre range, 3 home sites, \$4.99M. Call Bob Granholm, Re/Max Quesnel Realty, your Cariboo Ranch Expert. More info and other listings: 250-983-3372 bkgranholm@xplornet.com

178 ACRE RANCH, beautiful view of the Seven Sisters mountains, exc. land and water, house, barn, shop, hay shed and outbuildings, on Hwy #16 between Smithers and Terrace, \$650,000. 250-849-8411.

ALBERTA 6132

BUYERS for farms and ranches. Henry Vos, 780-835-1992, Royal LePage Realty. www.peacereverfarmsandranches.com

QUARTER SECTION FARMLAND For Sale: SW-21-83-6-W6. 14 miles west and south of Hines Creek, AB. Approx. 125 acres in crop, 10 acres tame pasture. Vacant yard-site, barn, and power. Immediate possession. If interested, call 780-494-2130.

1 QUARTER OF LAND, half treed, half hay/pasture land. 17 miles North of Rimby, AB. Call for more info. 403-843-2889.

37 ACRES MINUTES AWAY FROM LUNDBRECK FALLS- 1100567. 37 acre Agricultural Zoned Parcel! This property features a 3 bdrm, 2 bath mobile home w/large addition, three great producing water wells, small barn and 26'x48' garage/shop/carport. Enjoy beautiful mountain views from the covered veranda or the west facing deck. Outdoor adventure awaits! **MLS®** Real Estate Centre, 1-866-345-3414. For all our listings visit: www.farmrealestate.com

ALBERTA 6132

BY TENDER: SALE of Lands by Dwayne Koch, Brenda Tuchscherer, & Bonita Sept. The aforementioned owners of farmlands will accept offers to purchase any one, or several, of the eight parcels of deeded lands located in the RM of Fox Valley No. 171 (briefly described as All of Sec 31-17-27 W3, SW 6-18-27 W3, SW 32-17-27 W3, NE 29-17-27 W3, and SW 16-18-27 W3). Detailed particulars of which are available by email or fax request at the addresses below. Each parcel constitutes a quarter of land or a portion thereof as stated in the particulars. The Sellers or their agents are not responsible for the accuracy or completeness of the email/faxes received by the Tenderer. It is the Tenderers responsibility to review any information received and confirm the accuracy and completeness after receipt of information. The Owner reserves the right to reject any or all Tenders, and to waive formalities as the interest of the Owner may require without stating reasons. The highest or any Tender may not necessarily be accepted, sustained or suffered by any bidder prior, or subsequent to, or by reason of the acceptance or the non-acceptance by the Owner of any Tender. The bidders whose Tenders have not been accepted by the Owner will be notified within a reasonable time after Tender opening. The successful bidder shall pay a non-refundable deposit of 5% of the Tender price to Stringam LLP in trust by way of bank draft or solicitor's trust cheque with the tender submission. The closing date shall be **October 31, 2017**, the balance of the tender price shall be due and payable on said closing date. The taxes shall be adjusted at the closing date. The Owners shall retain all surface lease rentals up to and including the closing date without adjustment and any subsequent payments will be provided to the Purchaser. The balance of terms shall be set out in the tender package which shall be signed and submitted by tender. Tenders shall be marked "Koch Land Tender" and delivered on or before 12:00 noon (MDT) on September 30, 2017 to: Stringam LLP, 35 7th Street SE, Medicine Hat, AB, T1A 1J2, Attention: Kipling B. Wiesse. P: 403-488-8200. F: 403-488-8215. Email: kbwiese@stringam.ca and/or colleen@stringam.ca. Tenders must be open for acceptance until September 30, 2017. Only unconditional tenders will be considered. All lands are to be purchased "as is". Any applicable GST will be added to the Tender price unless the Tenderer has a GST no. and confirms indemnity for GST upon closing. The Owners, or Stringam LLP will notify the successful Bidder within 3 days from September 30, 2017 by telephone (or email or fax where such information is provided) when the Tender has been accepted.

SASKATCHEWAN 6133

RANCH FOR SALE between Glaslyn & Cochlin, SK. 17 quarters of hay land & pasture land, will hold 200 cows. 306-342-4433.

SASKATCHEWAN 6133

KINDERSLEY AREA: 123 acres, 2 homes, 2 shops, Kindersley waterline, cash renter in place, \$695,000. Arlene Boisjoli, Royal LePage Wheat Country Realty, Kindersley, SK, 306-463-4910, 306-460-7785, email royal3@sasktel.net Amy Greenwood, 306-460-8692, amygreenwood@royallepage.ca www.royallepagekindersley.ca

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BIG RIVER AREA: 3100 sq.ft. family home w/many great features. Very bright w/lots of windows. Heated w/in-floor (glycol) by propane and wood, and also a large wood fireplace. The property is 154 ac. of mainly bush pasture and fenced w/8' game fence and one electric wire. The yard is serviced w/water well. Other outbuildings included. This property is a must see! **MLS®** 611536 Call Lloyd Ledinski, RE/MAX of the Battledors, 306-446-8800 or 306-441-0512.

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SASKATCHEWAN 6133

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UNRESERVED AUCTION 417 ACRES OF River Frontage 19/08.2017 ID#1100561 Preeceville, SK. 417 acres Unreserved Auction. Features include: Cert. organic farmland, 980 sq. ft. home, 2 shops, beautiful river frontage, a nice recreation/camping area, good farming potential, an active gravel pit with \$5000 rental income. **Real Estate Centre, 1-866-345-3414.** For all our listings visit www.farmrealestate.com

NORTH BATTLEFORD AREA: 644 acres riverfront property, 2 log cabins, fenced, fantastic views, \$875,000; Near Elrose: 4 quarters deeded, 8 quarters leased, new home, complete yardsite w/outdoor riding arena, \$1,850,000; South of Kindersley: 160 acres with 2880 sq. ft. log home, shop, garage, beautiful property, \$990,000. Could be subdivided as an acreage, \$690,000; South of Kindersley: 17.3 acres complete yardsite, beautiful view, \$279,000. Call Arlene Boisjoli, Royal LePage Wheat Country Realty, Kindersley, SK, 306-463-4910 or 306-460-7785. Email royal3@sasktel.net View listings at www.royallepagekindersley.ca

SE OF MELVILLE, SK: 22 quarters (3463 acres) predominantly H soil (Oxbow Loam) all in grass/Alfalfa can go back to grain, new assessment \$3,393,300. Exclusive listing \$3,535,000. Royal LePage Premier Realty, Larry Hanowski, 306-728-9033 Email: hanowskifarms@sasktel.net

RM CANWOOD #494, 3 quarters: Grain, pasture and hay, 265 acres cult. On school bus route. UG power and phone on 2 good yard sites, 2013 assessment 203,700. 306-747-2775 after 6 PM, Shellbrook, SK.

3 QUARTERS GRAIN LAND in RM 331. By online AUCTION at <http://bidwin.org>. Qing Zhang, Landmart Realty, 306-684-0136, qing.canada@gmail.com Arran, SK.

SASKATCHEWAN 6133



FARM FOR SALE: Nestled in the heart of the Moose Mountains sits a beautiful piece of land with a 4 year old custom built home. This property includes 4 quarters of land with oil revenue and a 2580 sq ft + fully finished walkout basement, 5 bdrm, 4 bath home. Geothermal heat and heated double car garage. Full wrap around deck to enjoy the beautiful views. 20 minutes from Kipling, SK., \$1,650,000. 306-736-8215, 306-736-7153, email: kf_arn@hotmail.com



LIVESTOCK, cow/calf, sheep, horses, chickens, etc. Barn, quonsets, house. Viscount, SK. \$399,900. **MLS®** 617574, Art Urbanowski, Royal LePage Hallmark, Saskatoon, SK., 306-222-2206.

RM OF MANITOU LAKE for sale by Tender. 11 quarters offered in three parcels. Cropland, pasture, oil revenue, and grain bins. Details at www.boothlandtender.ca Tender closes 12 PM, August 29, 2017. Vern McClelland, Associate Broker, Re/Max Lloydminster, 780-808-2700.

WANTED
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MANITOBA 6134

CATTLE FARM - 11 quarters and 2 Crown quarters in a block. Near Roblin, MB. along the Duck Mtn. Prov. Park. Approx. 1100 workable acres, majority is hay. Fenced. Dugouts. May consider selling parcels. Scenic area. Yardsite has a 30'x66' pole shed/work shop. 2 cattle shelters. Corrals. **MLS #1627477**, Karen Gorluk, Salesperson, 204-773-6797. NorthStar Insurance and Real Estate, visit the website at www.north-star.ca

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- WHITE CITY 158 acres - owned by Kenneth Herauf
- SPALDING 159 acres - owned by Myrtle & Lorne Briggs
- WHITE CITY 159 acres - owned by Kenneth Herauf
- SIMPSON 476 acres - owned by The Estate of Stewart Hay C/O Pamela Hay
- ITUNA 770 acres - owned by Cindy & William Scherbey

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3 QUARTERS WITH YARDSITE: 477 acres in a block. Mixed farm, 300 arable acres. Fenced and cross fenced, 2 shallow wells., 40'x60' machine shed, 34'x44' pole shed, barn, corrals, hay fence. 24'x32' bungalow, w/double attached garage. Located beside the Riding Mtn. National Park. Contact Karen Goralluk-Salesperson, 204-773-6797. NorthStar Insurance & Real Estate. MLS #1701622. www.north-star.ca

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RM OF EAGLE CREEK NO. 376 requires a Full-Time Grader Operator. Employment to commence as soon as possible. The applicant must have well developed interpersonal, motivational and team skills, and be able to take direction and work independently. The applicant must have a valid driver's license w/preference for 1A. Experience on a back hoe is an asset. Work to include grading municipal roads (JD 870G), installing culverts, signage and repairs and other duties as required. Mechanical experience to perform general maintenance and equipment repair as required. The RM provides the S.A.R.M. benefits package. Interested applicants please submit a detailed resume including qualifications, past and present work experience, salary expectations, and three work related references by 4:00 PM August 28, 2017. We thank all applicants but only those selected for an interview will be contacted. RM of Eagle Creek No. 376, Box 278, Asquith, SK., S0K 0J0, Phone: 306-237-4424, Fax: 306-237-4294, Email: rm376eaglecreek@xplonnet.ca

FARM/RANCH 8016

SK GRAIN FARM hiring full-time and seasonal workers. Experience w/equip, valid license, willing to work ext. hrs. Maintenance/operating equip., general labour. References required, wages according to experience. tammydanychuk@gmail.com

CAREER OPP.

COUPLE OR FAMILY wanted for cattle operation in Saskatchewan. Must have experience in herd health, cattle nutrition and cattle handling. Knowledge in running a hay operation essential. Must be self-motivated, ambitious and able to work with little or no supervision in a smoke free environment. Accommodations supplied. 403-844-7818. billr@eldp.ca

LIVESTOCK YARD HELPERS, Penners & Sorters: Agricultural livestock workers needed. Duties include: Loading & unloading cattle; Feeding & processing cattle; Sorting cattle; Cleaning, repair and maintenance of facilities. Full and Part-time positions available. Please forward resume to: sold@balogauktion.com

FARM/RANCH LABORER REQUIRED: For August-November 2017. Driver's license required, class 1 preferred. Cattle experience an asset. Smoke-free environment. Possibility of full-time. Wages negotiable depending on experience. 403-578-8184 or 403-578-2401, Brownfield, AB.

GREAT OPPORTUNITY on C/C Operation in Central Alberta. Looking for a well-rounded individual to join our team in an awarding career in agriculture. Various farm/ranch duties from livestock husbandry, handling, herd health, general maintenance to operating and maintaining farm equipment. Must have minimum 3 years agricultural experience. May apply by fax: 403-227-6938, ph: 403-227-2594, email: opportunity@futurefarms.ca

RANCH HAND REQ'D: Machinery & livestock experience, clean driver's abstract. comes with house, Millarville, AB. Email resume w/references to: uxlranching@gmail.com

FULL-TIME FARM LABOURER HELP. Applicants should have previous farm experience and mechanical ability. Duties include operation of machinery, including tractors and other farm equip., as well as general farm laborer duties. \$25/hour depending on experience. Must be able to cross US border. Location: Pierson, MB/Gainsborough, SK. Feland Bros. Farms, Greg Feland and Wade Feland, Box 284, Pierson, MB. R0M 1S0. 701-756-6954.

RETIRED (but not tired) FARMERS for seasonal seeding and harvest work or young farm person on organic grain farm near Saskatoon, SK. Good wages and overtime. Email wallace.hamm@pro-cert.org or call 306-382-9024.

FULL TIME FARM LABOURER needed in Kamsack, SK. Applicant will be required to operate farm equipment, mechanical ability considered an asset. Send resume & references to bcgeerts@execulink.com or call Carol at 306-590-8537

BC LIVESTOCK IS looking for qualified sorters for three of our auction marts in Kamloops, Williams Lake, and Vanderhoof. Part-time and possible full-time positions available to qualified applicants. Please email resume to nico@bclivestock.bc.ca

FT HERDS PERSON REQ. on organic dairy farm. Duties include monitoring cattle health, artificial insemination & milking. Exp. required, 3 yrs. minimum as herd manager and diploma, \$15.50 per hour. Mail resume: St. Brigids Dairy Ltd., 42352 Brandon Road, Brussels, Ont., N0G 1H0. stbrigidsdairy@gmail.com

HELP WANTED for cattle and grain operation. Monthly or hourly wage. Seeking self-motivated person, potential for year round work. 306-795-2710, Goodeve, SK.

2 SEASONAL FARM Machinery Operators required. Must be able to operate grain cart, tandem grain truck, FWA tractor w/rockpicker, 4 WD tractor for harrowing. Also manual labour for upkeep of leafcutter bees and general servicing of equip. Aug. 1 to Oct. 31. \$15-\$18/hr. 101008187 SK Ltd., 303 Frontier Trail, Box 372, Wadena, SK., S0A 4J0. Fax: 306-338-3733, ph 306-338-7561 or clehr9860@hotmail.com

FULL-TIME FARM HELP WANTED for general farm labor on a large, mixed farm. Housing is available. For more info please call 780-745-2540, Paradise Valley, AB.

FARM/RANCH 8016

WORKER REQUIRED for cow/calf back grounding operation. Housing avail. Prefer someone w/holistic management, TEPAP ranching for profit, or similar training. Fax resume to: 780-755-2550, Edgerton, AB.

FARM WORKER: SEEKING a person with farming background and ability to operate farm machinery. Class 1 an asset. Living quarters available. Must work well with others, farm over 5000 acres grain and hay. De Winton, AB. www.barnoneranches.com 403-336-0034, 403-938-6886.

HELP WANTED on grain and cattle operation east central AB. Must have Class 3 drivers and experience w/cattle and machinery. Ph 780-582-2254, Forestburg, AB.

AUSTRALIAN HARVEST: Combine and grain cart operators required for 2017 harvest, October to January. Operating new CIH equipment. Experience required. Food and accommodation supplied. Great wages, great fun! For more info or to apply, email: stephensharvesting@hotmail.com

HELPER WANTED ON mixed farm. Steady job for right person. Room and board avail. 403-631-2373, 403-994-0581, Olds, AB.

HELP WANTED ON farm ranch. Cattle experience preferred. Wages based on experience. No driver's license required. Room and board possible. No texts. Please call 403-350-4089, Red Deer, AB.

RANCH HAND WANTED for general farm labour duties. Located between Regina and Moose Jaw. No accommodations. Call 306-731-2821 or 306-596-0507.

EXPERIENCED GRAIN HARVEST HELP wanted starting August 1. Experience operating combine & grain carts. Also needing semi truck drivers with Class 1A. Competitive wages. Accommodations available. Call Ryan 306-497-7730, Blaine Lake, SK.

FARM LABOURER REQUIRED for livestock operation. Duties include: operating, maintaining seeding & harvesting equip. Smoke free enviro., \$17/hr. Housing avail. Lyle Lumax, 204-525-2263, Swan River, MB.

POSITION AVAILABLE, Cypress Hills, SK. area. Background yearling grasser operation and cow/calf. Modern facilities and equipment. Good working environment. Class 1 preferred. Wages negotiable depending on experience. Ph. 306-295-7473.

EXPERIENCED FULL-TIME HELP for large grain farm, Class 1 an asset. Competitive wages. 306-537-6435, Odessa, SK

POULTRY PRODUCTION MANAGER: Pine View Farms, located just north of Saskatoon near Osler, seeks a full-time poultry farm-to-fork worker. 306-239-4763, ext. 2, www.pineviewfarms.com

WELLINGTON COMMUNITY PASTURE Corp., seeking proposal for FT Seasonal Manager. Call for complete informational package, 306-861-3704, Francis, SK.

FARM/RANCH 8016

FULL-TIME FARM HAND wanted for cow/calf operation. Experience handling livestock and operating machinery a necessity. Accommodations included. Potential for long term buy-in. Call 403-742-9878

FULL-TIME FARM HELPER for harvest, exp. combining, swathing, grain hauling. Need a valid drivers licence. Room and board avail. 780-768-2125, Two Hills, AB.

LARGE INTERIOR BC cattle ranch requires full-time **Cowboy.** Good horsemanship skills required. Horse shoeing and colt riding experience preferred, but will train. Good wages, medical, room and board provided. Fax resume 250-459-2624 or phone 250-459-7923 for email address.

FARM LABOURER/ EXPERIENCED Equip. Operator required. Seasonal help on mixed farm located 1 hour north of Edmonton. Possibility of immediate employment. Require Drivers Abstract and Criminal Record Check requested. Accommodation can be provided. Serious inquiries only please. 780-349-1699, 780-349-9759.

LARGE INTERIOR BC cattle ranch requires full-time farmer for haying operation and feeding cattle. Modern facilities and equipment Mechanical and welding experience would be considered an asset. Accommodation for a married man plus benefits. Fax resume 250-459-2624 or ph 250-459-7923 for email address.

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PROFESSIONAL 8032

REGIONAL REPRESENTATIVE - MANITOBA Canadian Foodgrains Bank is a partnership of 15 Canadian churches and church-based agencies working together to respond to global hunger. We are recruiting for a **Regional Representative** to join our Resources and Public Engagement Team. Based in Manitoba and working throughout the province, this home-based position is responsible for supporting local volunteers in community growing projects and other fundraising events, inviting communities, congregations and individuals to support our work, raising awareness of the issues that contribute to hunger, and liaising with donors, agribusiness and media. This position requires use of your own vehicle for extensive in-province travel. Good knowledge of the Manitoba agriculture and church sectors will be essential. This is a full-time position, but we would also consider proposals from those interested in a half time job-share arrangement. For a complete job description and application information, visit: www.foodgrainsbank.ca. Application deadline is August 9, 2017.

TRADES/TECHNICAL 8044

GENERAL MACHINIST REQUIRED to operate and maintain: Lathe, milling machine, drill press, band saw, iron worker, hydraulic press, grinders, welders, and portable line boring. Must be able to repair pumps, hydraulic motors, cylinder, gear boxes, etc. Please contact 204-966-3221 or by email: pennosmachining@gmail.com Visit on-line: www.pennosmachining.com

TRUCK DRIVERS 8046

DRIVERS FOR PIPE HAUL: Divers required to haul pipe for pipeline. Class 1 required. Starting at \$30/hr plus overtime pay after 10 hours/day or 50 hrs/week. Plus tax free living allowance, H&W benefits and pension. Call 780-400-0509 ext. 509. Visit our website: www.PioneerTruckLines.com Forward latest abstract and resume to: LucienBleau@PioneerTruckLines.com or fax to: 780-417-8956.

IA DRIVER NEEDED Experienced driver position open in SE Sask. Oilfield, winch, Texas bed and equipment experience necessary for moving equipment in SE Sask and western Canada. Ranging from 400 BBL tanks, cat hoes, shacks etc. Tractor trailer combinations from 6 - 10 axles. Candidates must be energetic, physically fit & some mechanical ability would be a plus. Forward resume & abstract to: flyingu@sasktel.net

TRUCK DRIVERS 8046

FULL-TIME SUPER B Driver. Requires: Min. 3 yrs. experience w/Super B's and grain handling. Class 1A and clean Drivers Abstract. Ph 403-498-5484, High River, AB.

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SEASONAL HEATER UNIT Operator positions available in AB and SK. If you are a Class 1 or Class 3 driver working on a farm in the summer and looking for winter work, we have the perfect position for you!! Pat's Off-Road Transport Ltd. has Heater Truck Operator positions available. Must be willing to be away for extended periods of time and willing to travel to various locations in AB and SK. All accommodations are paid for by the company. Potential to earn up to \$10,000 per mo. Send your resume and Drivers Abstract. Fax: 403-504-1711, email: patsoffroad@thehat.ca or apply in person to: #2, 1651 Broadway Ave. E, Redcliff, AB.

OWNER OPERATOR WANTED to pull Super B grain trailers in MB/SK. Must be willing to work weekends in harvest and spring seasons. Preference will be given to operators with their own fuel cards. Paid on percentage of load. Based out of Austin, MB. Call Chris 204-871-4280.

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PAIN RESEARCH

Pain is as plain as the look on its face

Many animals make similar faces when they experience pain

BY BARBARA DUCKWORTH
CALGARY BUREAU

Many pet owners believe they know how their dog or cat is feeling.

They may be right. Research into facial expressions of emotion and pain could help producers and veterinarians better understand when an animal is feeling discomfort.

People who spend a lot of time around animals may already have an ability to read emotions but now there is scientific evidence and possibly a computer application to understand variations in facial expressions, said Mirjam Guesgan.

She has researched facial expressions in sheep and lambs when she completed her doctorate at Massey University in New Zealand.

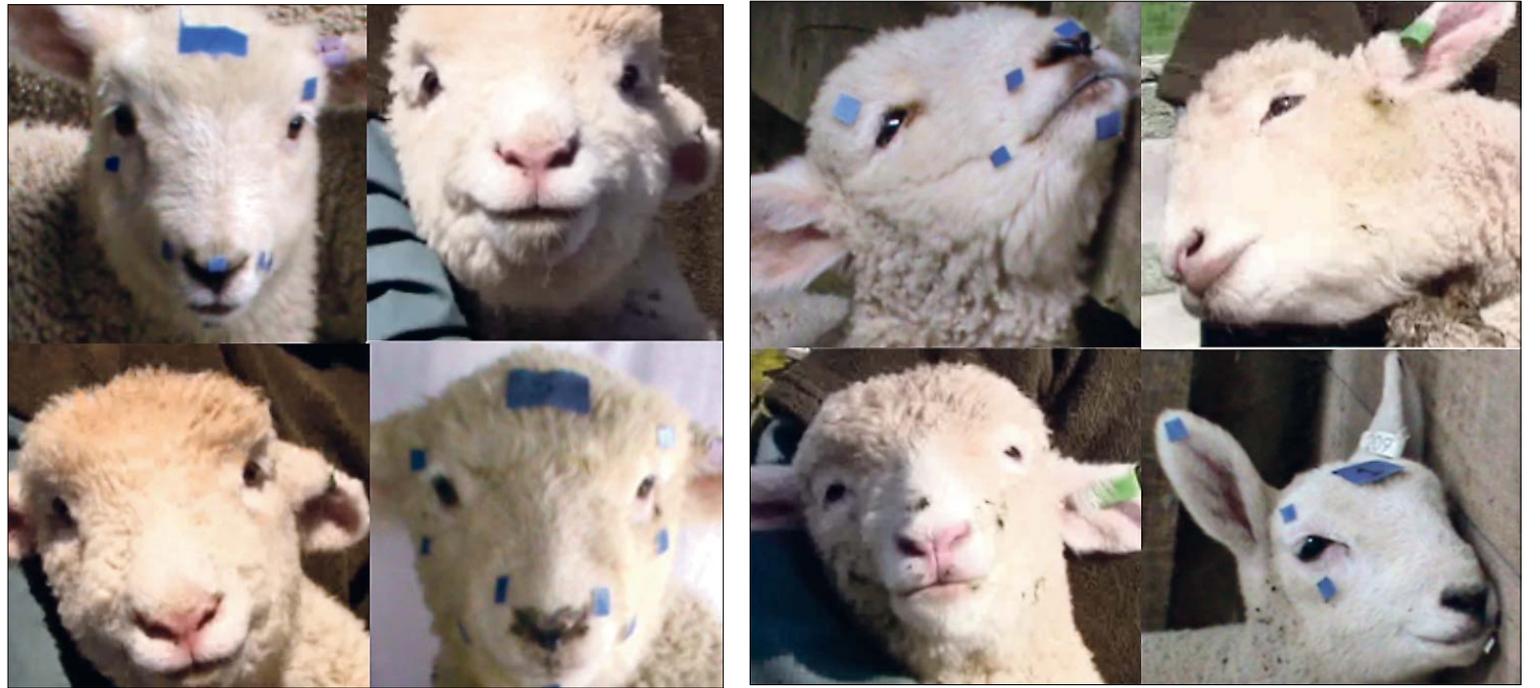
"By doing this kind of research, we are bringing those sorts of things to people's attention. Once they are aware of it and you can train people to look for these different expressions then they can do it themselves," she said.

She recently completed a post-doctoral fellowship at the University of Alberta.

Mammals display a spectrum of emotions and when people have more empathy for them they can offer better treatments or protect themselves when working around large or dangerous animals.

"If you are not reading the horse's body language or face correctly, you can get injured," she said in an interview.

To prepare a computer model, good base line data is necessary



Based on Mirjam Guesgan's research, the photos on the left show no pain after tail docking, while the faces above show evidence of pain. | PHOTOS COURTESY OF MIRJAM GUESGAN

to determine meaning in facial expressions.

"It involves decoding the facial features and showing how they change when an animal shows a particular kind of emotion."

Despite their different anatomy, mice, rats, rabbits, horses and sheep all display similar faces to indicate pain, which can be transferred to a pain coding indicator called a grimace scale. When in pain, many animals squint their eyes, hold their ears back and tighten their mouths. They may puff out or suck in their cheeks.

"You need to identify those features first and then you can program them into some sort of computer algorithm," Guesgan said.

That algorithm compares the

image of the animal when it is has a neutral expression to the face that indicates pain.

Most of her work has been done with sheep. They often hide their pain but during the course of the research their facial expressions did change. This may be a way to communicate with one another.

"You might want to let others in your group know, 'hey I am in pain, help me out or go away,'" she said.

Research was done on the lambs after their tails were docked. They were not subjected to any extra circumstances to elicit a response.

Happiness or contentment is less researched, although people often have a good sense of how an animal such as the family dog is feeling.

"When it comes to animal welfare

We have to be a bit careful because it is very tempting to want to put a particular emotion on an animal based on facial features.

MIRJAM GUESGAN
NEW ZEALAND RESEARCHER

research on the positive side, there hasn't been that much work done. It is an emerging field."

Studying positive emotions in dogs may be a good start.

"They co-evolved with us. They have evolved over about 100,000 years together so the cues that we

are sending back and forth especially could be real," she said.

Studying facial features is easier than interventions like monitoring heart rates or blood tests looking for stress hormones.

At the same time, people can't jump to conclusions.

"We have to be a bit careful because it is very tempting to want to put a particular emotion on an animal based on facial features."

"We may think an animal is experiencing something but we need scientific evidence to really tell those facial expression or heart rate or changes in brain activity. Any of those can give us clues as to how an animal is feeling," she said.

barbara.duckworth@producer.com

QUALIFICATION REQUIREMENTS

Canada's BSE controlled risk status under review

BY BARBARA DUCKWORTH
CALGARY BUREAU

The requirements for BSE risk status are under consideration.

Under current rules at the World Organization for Animal Health (OIE), a country must be BSE free for 11 years since the birthdate of the last infected case. Countries like Canada with controlled risk status argue that period needs to shorten, providing they meet other requirements like surveillance and strict feed rules.

"As BSE is becoming eradicated, what you want is countries to have very strong surveillance so we can actually prove it is going away. The problem is if you look hard and you find a case, you get punished for

that," said John Masswohl of the Canadian Cattlemen's Association.

Canada's last case was in 2015 in a cow born in 2009 so it is not eligible to change its status until 2020.

The United Kingdom, Ireland and France have also discovered cases in that 11-year window and face trade restrictions.

The International Beef Secretariat promotes a change in the rules with a focus on control and surveillance.

Last year, the OIE established a scientific commission to look at the question. During the 2017 meeting in May, the committee said control and surveillance should be the focus and questioned the rationality of the 11-year rule.



JOHN MASSWOHL
CANADIAN CATTLEMEN'S ASSOCIATION

It made two recommendations: join negligible and controlled risk categories into one category, or focus the decision on whether a country moves from controlled to negligible risk on the qualitative factors.

"There was not a lot of support for

uniting the two categories into one, but there was recognition of the idea for focusing on the qualitative factors," Masswohl said.

Canada is part of a working group to make changes but it is not known if a proposed new chapter could be presented at the 2018 OIE session.

"Canada's approach to eliminating the spread of BSE in the national herd is accomplished through various risk management strategies," said the Canadian Food Inspection Agency in an email.

The 2007 enhanced feed ban outlines strict controls to prevent specified risk materials, a potential source of infections, from entering feed and fertilizer systems.

CFIA's analysis of individual cas-

es born after the original ruminant feed ban determined cross-contamination with prohibited material was still occurring. Analysis determined that while the degree of BSE control afforded by the original ban from 1997 was sufficient to prevent an expanding epidemic in Canada, it could not eradicate the disease. For these reasons, the CFIA proceeded with the design and implementation of the enhanced ban.

Born after the ban (BARB) cows continued to appear, with the most recent case occurring on an Alberta farm in a Black Angus cow born in 2009, 20 months after the enhanced feed ban was made law.

CONTINUED ON NEXT PAGE >>



INTERNATIONAL BISON CONFERENCE

Display offers inside scoop on the workings of a bison

Veterinarian's mobile show provides a history on the hairy animal

BY BARB GLEN
LETHBRIDGE BUREAU

BOZEMAN, Mont. — A rare chance to see both the outside and the inside of a bison was offered to those who attended the International Bison Conference July 4-7.

Dr. Don Woerner, a veterinarian from Billings, Montana, owns Ernie, a bison mounted so that it has its own hide and usual appearance on one side and an exposed skeleton on the other.

The bison was the focus of much interest while on display at the convention site in Big Sky and again at Ted Turner's Flying D Ranch near Bozeman.

The display came about after Woerner acquired two bison from an animal sanctuary that had lost

its funding. The animals were being loaded for shipment elsewhere when they got loose.

"A loose bison in Montana doesn't have a very long lifespan," said Woerner.

As a veterinarian, he had the skills and equipment to tranquilize the animals, and when things didn't work out at their intended destination, he ended up keeping them for a year and a half.

He called them Bert and Ernie.

The two animals were fine there for a time, but Woerner sought alternatives.

While visiting a museum, he saw a model of a dinosaur with its skeleton exposed on one side.

"I thought, well, maybe that's the best thing to do with these, because they were kind of eating me out of

house and home and they're not exactly a pet on an eight acre piece of ground," he said. "It really wasn't fair to have them there."

Ray Hatfield, a taxidermist in Cody, Wyoming, mounted both bison. Woerner said one of them, Bert, is in the Buffalo Bill Center in Cody, although he's heard it may be shipped for display in China.

Ernie is making the rounds with Woerner, who has a mobile showcase of bison artifacts and information.

barb.glen@producer.com



Visit us online at
www.producer.com
to see a video about this story.



Don Woerner displayed his mobile bison show at the International Bison Conference in Bozeman, Montana. | BARB GLEN PHOTOS

» CONTINUED FROM PREVIOUS PAGE

That farm also had a case in a cow born in March 2004.

The subsequent investigation decided contaminated feed brought onto the farm before the implementation of the enhanced feed ban was the probable cause.

In Europe, 60 BSE cases were born after the total feed ban put in place in 2001. The European Food Safety Authority published its finding about the most likely origins of these cases and if spontaneous cases were possible.

"Feeding material contaminated with the BSE agent cannot be excluded as the origin of any of the BARB-60 cases, nor is it possible to definitively attribute feed as the case of any of the BARB-60 cases," said the report in a 45-page document released in July.

"During the first years of imple-

mentation, there were a large number of deficiencies reported that could have compromised the feed ban, and that increased the risk that contaminated processed animal proteins could have entered the feed chain," said the report.

Eleven members of the EU had cases with the most found in the United Kingdom at 28 cases, Ireland at 12 and seven in Spain. The other affected countries had one to three cases early on after the ban. None of the animals made it to the food chain.

Long incubation period

Research has shown small amounts of infected material, as little as one milligram, could be responsible for disease. The infective material has a long life and the disease has a long incubation period from the time the animal eats it

until signs of the disease appear.

Other problems are that some countries did not implement the ban right away, animal protein products were not properly separated during processing and there was a lack of documentation of practices.

"It is widely accepted that the initial feed bans, while very effective at reducing numbers of cases, were not as robust as they needed to be," said the report.

Surveillance is ongoing in Europe. Between 2001-2015 nearly 98 million cattle were tested. The 60 positive cases were found in that surveillance.

The BARB cases followed a similar pattern to the epidemic when BSE was at its height in the 1990s. Most cases appeared in 2008 and have tapered off since.

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WATER QUALITY

Risk of sulfate toxicity grows as drought deepens

ANIMAL HEALTH



JOHN CAMPBELL, DVM, DVSC

As we deal with drought conditions in many areas of the Prairies, water quality that cattle drink may also be affected.

Sulfate is a common mineral component and is present at some level in most water sources, as well as in many feeds.

Some areas of the Prairies may have wells with high levels of sulfate that can affect animal performance.

However, during a drought, water that may have been acceptable for animal consumption may become toxic as the summer progresses.

Evaporation can lower water levels in dugouts throughout the summer, especially during drought, and can begin to concentrate mineral levels.

The most common form of water toxicity seen in cattle in Western Canada is sulfate toxicity.

Water that is high in sulfates is not very palatable to cattle and if given a choice they will choose another source and refuse to consume the high sulfate water.

However, if there is no other water source, the cattle will eventually drink the high sulfate water and can show signs of toxicity.

Even then, cattle may reduce intake, drink reluctantly and can be observed attempting to drink but allowing water to dribble out of their mouths.

The palatability of high sulfate water might be very poor, but thirst is an even stronger motivator and cattle will eventually drink it.

There are many good guidelines for livestock water quality available but a general rule of thumb is that water with less than 1,000 parts per million (p.p.m.) of sulfate is acceptable for beef cattle to consume.

Once sulfate levels are between 1,000 p.p.m. and 2,000 p.p.m., effects on animal growth and performance can be seen.



Water high in sulfate can lead to blindness, seizures and loss of balance. Producers are urged to have water tested. | FILE PHOTO

Sulfate interacts and binds with copper, making it unavailable to the animal. This can result in a copper deficiency, which is sometimes referred to as a “secondary copper deficiency” caused by the antagonism of the sulfate mineral in the water or the diet.

Copper deficiency can create low growth rates, impaired fertility, anemia and hair colour changes. Many areas of the Prairies already have forages low in copper, which results in low copper levels in cattle that consume these forages.

Preliminary results from our Western Canadian Cow-Calf Surveillance Study have shown that most cows sampled in our study had below adequate levels of copper. Many herds had less than half of the sampled cows with adequate copper levels.

If we compound a situation that already has marginal copper levels by adding water with sulfates greater than 1,000 p.p.m., we can create a secondary copper deficiency that

will cause significant deficits in cattle growth and fertility.

As sulfate levels in water climb higher, other signs of toxicity become evident.

If water sulfate levels are more than 2,000 p.p.m., we may begin to see signs of nervous disease in the cattle. Polioencephalomalacia (PEM) is the technical term for a nervous disease of cattle that is characterized by blindness, difficulty walking and seizures.

Eventually, the animals become recumbent and may die. Some animals with less severe forms of PEM may recover but have some minor neurological symptoms.

The disease was first described in the 1950s and was thought to be caused by a deficiency in thiamine. Thiamine levels are very difficult to determine in cattle and recently it has been shown that sulfate toxicity can create PEM and is probably the primary cause for the disease.

If the animal consumes water or feed with exceptionally high levels

of sulfate, hydrogen sulphide gas is created in the rumen and is absorbed into the blood stream.

Hydrogen sulfide has a toxic effect primarily on the brain and the result is an animal showing the many nervous system symptoms of PEM.

If water sulfate reaches the 3,000 p.p.m. level or the 4,000 p.p.m. level, the development of PEM becomes even more likely. Lack of water consumption due to water quality can also result in salt toxicity. Generally, animals can tolerate high concentrations of salt or sodium in their diets if they are able to access and drink adequate fresh water.

If water quality deteriorates to where water is unpalatable or unavailable, animals can also be affected by salt toxicity, which can be manifested as abdominal pain, diarrhea, and nervous signs such as circling, loss of balance and seizures.

High sulfate feed can also contribute to the total dietary sulfate levels and so sulfate levels in the diet may need to be considered.

Ethanol byproducts such as dried distillers grains with solubles have high levels of sulfur, and feedlot cattle that consume these types of feeds and are exposed to moderate levels of sulfates in water may have total sulphur levels high enough to create an outbreak of PEM.

There is no specific treatment for PEM and many veterinarians will use thiamine and anti-inflammatory drugs as supportive therapy. Removal of animals from the water or feed source that is high in sulfate is essential.

Water can easily be tested for sulfate levels, and in dry summers it is important to monitor dugouts because their sulfate levels may increase as evaporation occurs.

A livestock agrologist, veterinarian or nutritionist can assist with water testing and interpreting results.

John Campbell is a professor in the department of large animal clinical sciences at the University of Saskatchewan's Western College of Veterinary Medicine.

POST BREXIT

U.K. dairy sector nervous over Brexit impact on ag policy

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — As the United Kingdom negotiates to leave the European Union, uncertainty is a new reality for farmers.

“We are not quite sure how policy is going to work,” said Judith Bryans, executive director of Dairy U.K.

“The (European Union) position is not willing to discuss anything on trade until certain aspects of the divorce are set out,” she said at the Dairy Farmers of Canada annual meeting held in Edmonton July 18-19.

Representing 85 percent of the British dairy sector, some members see the split as a major import opportunity while others see a

chance to export more. What they don't want is a jagged split that leaves them in worse shape.

“Nobody wanted to see an introduction of additional red tape, administrative burden. Nobody wanted to see tariffs coming in or the creation of non-tariff barriers by suddenly changing regulations,” she said.

A looming problem is the potential loss of labour.

“There is almost full employment in the U.K. and people do not see farming or processing as attractive work. A lot of our industry needs European labour,” she said.

“It is not about cheap labour. You can't get people in the U.K. to take the jobs,” she said.

Border issues have also raised

question.

Processing plants, farmers, workers and milk easily cross borders between Northern Ireland, Republic of Ireland, England, Scotland and Wales.

Farmers and distributors move back and forth or people may live in one country and work in another. The U.K. wants a common travel area and a frictionless border with Ireland, but that may not be possible.

Future agriculture policy and subsidies are also uncertain. Before the election and the vote for Brexit, farmers were told they would be guaranteed subsidy payments until 2020. But once out of the European Union, it may take Britain until 2025 to sort out an

agriculture deal.

Since the U.K. election that left the government in a minority, a ministry to plan for Britain's leaving the EU has been formed and it works with other departments.

However, agriculture and food have no prominence, she said.

Top, medium and low priorities for the government Brexit strategy were recently leaked to the media.

“Agriculture was not in any one of them. We know we have a big deal on our hands. Therefore, we have to be given provenance,” Bryans said.

The dairy sector wants to be involved in future decisions.

“The reality is the U.K. has a very large dairy deficit and we are one of the largest importers of product in the world. A bad deal for the U.K. is

a major problem for the domestic dairy industry,” she said.

Most imports come from the EU with a large share from Ireland.

However, Britain is also a big exporter and could become a major worldwide dairy exporter.

Last year, the industry reported \$14.35 billion in sales and employ 73,000 people in farming and processing.

The 13,000 dairy farmers have an average 153 cows producing more than 14 billion litres of milk annually.

Most farmers hold contracts with private and farmer owned co-operatives. A smaller number have contracts with retailers.

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HOG NUTRITION

Innovation must be tested in real world

While hog nutritionists can develop theories from small trials, knowing what is happening in large barns is essential

BY JOHN GREIG
FREELANCE WRITER

As the hog industry becomes more integrated, small changes in nutrition can have significant financial impacts across large systems.

That means swine nutritionists and academics must think about what level of research evidence is needed for changes to be implemented at the farm level.

That is one conundrum facing swine nutrition, according to John Patience, a professor in the department of animal science at Iowa State University.

Patience was raised in Ontario, completed his bachelor's and master's degrees at the University of Guelph and was a research leader at the Prairie Swine Centre in Saskatoon before moving to the United States.

He was the presenter of the Kees de Lange Memorial Lecture at a swine research day held earlier this year in Guelph.

DeLange was a well known swine nutritionist who died in 2016. Patience called him the "global thought leader in swine nutrition."

The University of Guelph also announced at the research day that a scholarship will be created in de Lange's name.

Kees de Lange's work demonstrates how much has been learned

in swine nutrition over the past 50 years.

The National Research Council (NRC) based in the United States sets the global standard for animal nutrition with its guidelines. The NRC guidelines are the manual for livestock nutrition. The first one in the 1960s was about 80 pages. The latest update, led by de Lange in 2012, was more than 400 pages.

"It needed greater detail because fundamentally that was the level the industry was operating at," said Patience.



JOHN PATIENCE
IOWA STATE UNIVERSITY

Despite those 400 pages, there are significant limitations to what nutritionists can do, said Patience. The future of nutrition will be to overcome the challenges he outlined:

- Feed mills are based on high throughput, especially those in the U.S. Midwest. Patience said a nutritionist might have a great

idea to save \$2 per hog, but there may be no way to get that ration change through a feed mill.

- Nutritionists need better information about what is going on in barns in real time. With tight biosecurity and farmer concern about information sharing, it is difficult to have the information to make nutritional changes quickly on farms.
- Energy systems have significant practical and technical limitations. Digestibility requirements change with age. Net energy is a measure used in feed formulation, but it can be calculated in several ways.

- Pigs vary greatly in their biological capacity, and nutritional models have challenges taking that into consideration. Does a ration aim at the average, the top or the bottom performers?

- Academics define successful experiments by their repeatability. How much can the results be trusted? Academics talk about P-value, and an experiment with a lower P-value than .05 is usually considered not repeatable enough.

However, Patience said he's had to challenge his own assumptions about repeatability in the real world of hog production in Iowa.

A P-Value of .02 means something will still be right four out of five times.



There are many challenges yet to be solved in swine nutrition, says an animal science expert. | FILE PHOTO

"If the payback is in dollars per pig, I can't ignore it."

If an employee tells their boss they can save \$1 to \$2 per pig, and the repeatability is four out of five, the boss will want to know why they shouldn't do it.

Ten cents per pig saving is worth a lot of money to farms selling hundreds of thousands of pigs per year, he said.

- The rapid growth of feed additives makes for more decisions by nutritionists, some that have

to be made with scant research available. As the use of antibiotics for growth promotion become limited, the need for understanding novel additives will be increasingly important.

- Improving feed efficiency means pigs that need to use less energy for maintenance. As unhealthy pigs need more energy to fight infection, the value of maintaining a healthy herd will only increase in the future, when less energy goes to maintenance.

75 YEARS AGO

Sask. looked to U.S. for help with harvest during wartime

FROM THE ARCHIVES



BRUCE DYCK

The Western Producer takes a weekly look at some of the stories that made headlines in issues of the paper from 75, 50, 25 and 10 years ago.

75 YEARS AGO: JULY 30, 1942

Saskatchewan planned to use as much American machinery and as many U.S. labourers as the country could make available to harvest the fall crop, said the central committee of the provincial harvest campaign. Revised regulations would now make this possible, said deputy agriculture minister H.F. Auld.

Harvest helpers riding to and from harvesting operations on the Prairies were exempted from a Wartime Prices and Trade Board order prohibiting trucks from carrying passengers.

50 YEARS AGO: AUG. 3, 1967

Alberta farmers were signing onto the new crop insurance pro-



A grain elevator is moved in Saskatoon in June 1960. | FILE PHOTO

gram in droves. Nearly 10,000 producers had coverage exceeding \$36 million, compared to 4,400 producers with \$13 million in coverage the previous year.

The program was available to only one-third of the province, but it was hoped to cover all areas where

practical within three years.

A joint board conference of the National Farmers Union authorized its executive to take strike action if it thought it was needed to back up farmers' demands for better agriculture policy.

However, *The Western Producer* never spelled out what the NFU defined as a farm strike.

25 YEARS AGO: JULY 30, 1992

Initial payments for the new crop year went up slightly from

the previous year.

For example, prices for top grade wheat increased \$3 a tonne to \$112.

Grains and Oilseeds Minister Charlie Mayer said the increase was a sign of steady improvement in the agriculture economy, but farmers weren't impressed.

"It's certainly nothing for anybody to get too excited about," said Hugh Drake of Elkhorn, Man.

Richard Klassen, a Canadian Wheat Board commissioner, told farmers they would have to decide if they wanted to continue giving up "individual freedoms" for a central marketing agency. It would be up to them and not board employees to determine if the wheat board should be around in 25 years, he added.

10 YEARS AGO: AUG. 2, 2007

A Russian company was close to reaching a deal to buy Buhler, the Canadian firm that built tractors in Winnipeg.

It was expected that the purchase by Rostselmash would make it easier for Buhler to compete against the big implement manufacturers.

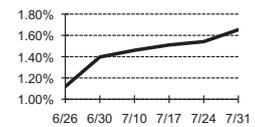
Agriculture Canada's research centre in Lacombe, Alta., celebrated its 100th anniversary.

bruce.dyck@producer.com

AG FINANCE

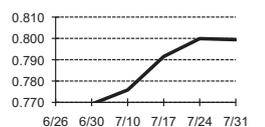
CDN. BOND RATE:

1.653%



CDN. DOLLAR:

\$0.7994



Bank of Canada 5-yr rate

July 31

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CRAFT MALT

Grower takes business to the next step: making malt

Meet Matt Enns, the public face of Saskatchewan's first craft malting company

BY BRIAN CROSS
SASKATOON NEWSROOM

Matt Enns and his family have been growing high quality malting barley in the Saskatchewan River Valley north of Saskatoon for more than 30 years.

However, starting this year, they're taking their interest in barley to a whole new level.

Over the next few months, Enns will be putting the finishing touches on a new malting plant that aims to fill a niche in the craft malt market.

"Basically what we saw was an uptick in the craft brewing scene in North America and Saskatchewan... and a disconnect between the small craft brewing industry and the large multi-national maltster in terms of their scale of production," said Enns.

"The large maltsters are creating products that are destined for big brewing companies like Anheuser Busch.... Their whole game plan hinges on being able to produce a consistent, generic product at large volume....

"But the craft brewer wants to do something entirely different. They want to create products that are unique... so they're kind of excited about having a maltster that will create products aimed specifically at (their) market."

Maker's Malt, located at Rosthern, Sask., is positioned to become Saskatchewan's first craft maltster.

The company will add value to locally produced malting barley by processing small batches of base and specialty malts.

Right now, many craft brewers interested in brewing unique, specialty beers are unable to source specialty malts in Canada.

In many cases, the specialty malts they use are imported from Europe.

Maker's is hoping to change that. Enns has already constructed a building that will serve as a base for operations.

Later this month, he will take delivery of a custom-made steeping vessel from a manufacturer in

Wisconsin.

If all goes well, Maker's will process its first batch of malt barley in September.

Enns said Maker's will begin shipping finished malts to customers in Saskatchewan and throughout Western Canada.

In time, it will look at exporting finished malt to specialty brewers in the United States and beyond.

The craft brewing industry has been expanding in Canada for several years, but it still hasn't reached its full potential, Enns said.

Recent statistics suggest that craft brewers command only one or two percent of the Saskatchewan beer market.

In the United States, the figure is closer to 15 percent.

In Saskatchewan, the number of craft brewers has expanded quickly over the past few years, but the number of craft maltsters has not kept pace.

More than a dozen craft brewers and independent brew houses make their own beer in Saskatchewan. Manitoba's craft beer industry is also poised for significant growth.

Enns began to notice the growth in that sector a few years ago after chatting with craft beer aficionados and friends who were looking for beer with different flavours and profiles.

That's when the wheels started turning.

The idea ruminated for a few months before Enns and a few business partners decided to take the plunge.

Without a template to follow, Enns designed a small-batch processing facility capable of producing up to four tonnes of finished malt per week.

At start-up, Enns is planning to bring in an experienced maltster from the United States to fine-tune the malting process and work out any bugs in the new system.

Eventually, Enns himself will

serve as the plant's full-time maltster, at least until demand for his products warrants additional staff.

Enns said his farm will continue to sell the vast majority of its annual barley production to the big processors.

But in the end, the opportunity to add value to some of his production while meeting the demands of specialty brewers close to home was simply too great to ignore.

"We're typically producing great quality malt barley in Saskatchewan, but we're really not getting full value out of it, in a sense," he said.

"Right now, our barley goes into a big mix along with barley that's produced by a thousand other farmers and it creates a generic product. We think our barley can do more than that."

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AG STOCKS JULY 24-28

The Canadian economy grew at an annualized rate of 4.6 percent, the strongest in 17 years. The Toronto Stock Exchange composite fell .4 percent, the Dow rose 1.2 percent, the S&P 500 was flat and the Nasdaq fell 0.2 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	41.78	41.26
AGT Food	TSX	26.00	26.00
Bunge Ltd.	NY	79.85	79.63

PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	0.80	0.87
Cervus Equip.	TSX	12.17	11.91
Input Capital	TSXV	1.84	1.91
Rocky Mtn D'ship	TSX	10.10	9.86

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	34.24	33.88
Hormel Foods	NY	34.15	33.23
Lamb Weston	NY	43.82	45.00
Maple Leaf	TSX	34.33	32.32
Premium Brands	TSX	89.44	90.61
Tyson Foods	NY	63.00	61.88

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
AGI	TSX	56.13	55.81
AGCO Corp.	NY	71.94	71.82
Buhler Ind.	TSX	4.15	4.15
Caterpillar Inc.	NY	114.10	106.59
CNH Industrial	NY	11.45	11.65
Deere and Co.	NY	128.91	125.75

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrium	TSX	124.13	125.42
BASF	OTC	93.82	94.39
Bayer Ag	OTC	126.45	129.51
Dow Chemical	NY	65.68	66.14
Dupont	NY	83.98	84.54
BioSyent Inc.	TSXV	8.67	8.20
Monsanto	NY	117.47	117.38
Mosaic	NY	24.17	24.37
PotashCorp	TSX	22.16	22.56
Syngenta	ADR	92.26	92.31

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	98.41	102.86
CPR	TSX	196.39	203.28

List courtesy of Ian Morrison, financial adviser with the Calgary office of Raymond James Ltd., member of the Canadian Investor Protection Fund. The listed equity prices included were obtained from Thomson Reuters. The data listed in this list has been obtained from sources believed to be reliable, but accuracy cannot be guaranteed. Within the last 12 months, Raymond James Ltd. has undertaken an underwriting liability or has provided advice for a fee with respect to the securities of AGT Food. For more information, Morrison can be reached at 403-221-0396 or 1-877-264-0333.

BANK OF CANADA

BoC may hike interest rates in October

OTTAWA (Reuters) — With no public speeches scheduled before its September interest rate decision, the Bank of Canada has signaled it is comfortable with market expectations that a rate hike won't happen until October at the earliest, analysts say.

The central bank's July rate hike, the first in seven years, was preceded by a flurry of speeches and interviews by top officials providing signals.

Markets see a 70 percent chance of a rate increase at the bank's October meeting.

Matt Enns and the investors of Maker's Malt have a new building ready to go in Rosthern, Sask. All that's left is to install the malting equipment. |

BRIAN CROSS PHOTO



STATISTICS CANADA

Canada to modernize statistics agency, data collection

OTTAWA (Reuters) — The federal government plans to modernize Statistics Canada, including identifying new ways of collecting data and making it easier for people and businesses to find and use the information.

Innovation Minister Navdeep Bains told business leaders at an Environics Analytics event in Toronto that Canada wants to become a leader in an increasingly data-driven world.

With data available more quickly and from a wider variety of sources than ever before, Statistics Canada must innovate to meet the needs of Canadians, Bains said.

The agency releases the country's official economic data on everything from jobs to gross domestic product to trade. The reports are closely watched by markets and investors. Bains is responsible for Statistics Canada, though the agency operates at arms-length from the government.

Questions were raised about the agency's operations last year when its head abruptly quit, while its website has been plagued by outages and delays.

Bains identified a number of key focus areas, including finding new methods of generating and collecting data that go beyond surveys.

The government also wants to look at new ways to integrate data from a variety of sources and make the data easier for businesses and analysts to use by making it available in its raw form.

Such changes would allow software developers to use simple tools to access data sets without the need for specialized knowledge of government agencies or programs.

Still, Bains made clear that the plans are in their early stages, with the government seeking input from Canadians through the rest of the summer and into the fall.

The federal budget released earlier this year allocated \$39.9 million over five years to Statistics Canada to create a database of home sales in the country. Critics have long argued that Canada does not track enough data on its housing market, making it difficult to quantify risks.



A modernization of Statistics Canada will help it find new methods of generating and collecting data that go beyond surveys. It will also provide more public access to raw data. | WILLIAM DEKAY PHOTO

ENVIRONMENT

Renewable fuel standard tossed out by U.S. appeals court

NEW YORK (Reuters) — The U.S. Environmental Protection Agency erred when setting standards for how much renewable fuel must be included in fuel sold in the United States, a U.S. court ruled last week, and ordered the agency to try again.

The EPA had sought to lower the amount of biofuel that needed to be mixed into U.S. fuel. But the U.S. Appeals Court, District of Columbia Circuit, said the agency had incorrectly interpreted a provision in the 2005 Energy Policy Act on which the agency relied to justify reducing the levels.

Rather than considering how much biofuel supply was available to refiners and importers, the EPA considered how much demand consumers expressed for renewable fuels. That consideration was not allowed under the law, according to the appeals court ruling.

"We are currently reviewing the decision," said an EPA spokesperson.

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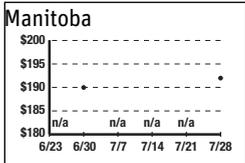
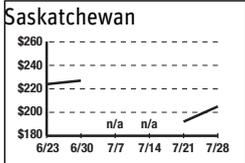
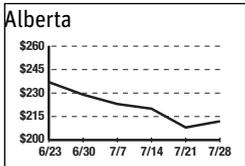


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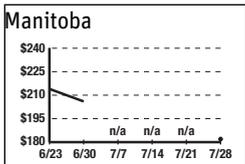
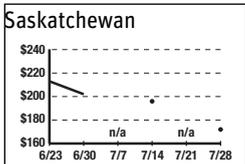
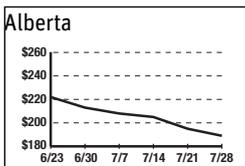
For more information on all registered charities in Canada under the *Income Tax Act*, please visit Canada Revenue Agency www.cra-arc.gc.ca/charities.

CATTLE & SHEEP

Steers 600-700 lb. (average \$/cwt)



Heifers 500-600 lb. (average \$/cwt)



Canadian Beef Production

million lb.	YTD	% change
Fed	1,077.3	+2
Non-fed	191.6	+11
Total beef	1,268.9	+4

Canfax

EXCHANGE RATE
JULY 31
 \$1 Cdn. = \$0.7994 U.S.
 \$1 U.S. = \$1.2509 Cdn.

Slaughter Cattle (\$/cwt)

Grade A	Live		Previous	Year ago	Rail		Previous
	July 21-July 27	July 14-July 20			July 21-July 27	July 14-July 20	
Steers							
Alta.	n/a	n/a	n/a	147.64	234.50-238.50	237.75-241.50	
Ont.	137.21-150.81	141.87-160.44		146.24	245.00-260.00	253.00-265.00	
Heifers							
Alta.	n/a	n/a	n/a	141.22	234.50-237.50	n/a	
Ont.	131.00-146.52	143.64-157.51		141.44	244.00-259.00	252.00-264.00	

*Live f.o.b. feedlot, rail f.o.b. plant. Canfax

Feeder Cattle (\$/cwt)

	Sask.				Man.				Alta.				B.C.			
	900-1000	800-900	700-800	600-700	900-1000	800-900	700-800	600-700	900-1000	800-900	700-800	600-700	900-1000	800-900	700-800	600-700
Steers	164-176	no sales	165-188	no sales	165-188	no sales	165-188	no sales	165-188	no sales	165-188	no sales	165-188	no sales	165-188	no sales
Heifers	no sales	no sales	156-177	no sales	156-177	no sales	156-177	no sales	156-177	no sales	156-177	no sales	156-177	no sales	156-177	no sales

Canfax

Average Carcass Weight

	July 22/17		July 23/16		YTD 17		YTD 16	
	Steers	Heifers	Steers	Heifers	Steers	Heifers	Steers	Heifers
Canfax	868	901	880	914	868	901	880	914
Steers	803	817	813	844	803	817	813	844
Heifers	747	768	740	775	747	768	740	775
Cows	1,042	1,004	1,054	1,026	1,042	1,004	1,054	1,026
Bulls								

U.S. Cash cattle (\$/cwt)

	Steers		Heifers	
	National	Kansas	National	Kansas
Slaughter cattle (35-65% choice)	117.00	117.00	117.00	117.00
National	117.00	117.00	117.00	117.00
Kansas	117.00	117.00	117.00	117.00
Nebraska	n/a	n/a	n/a	n/a
Nebraska (dressed)	187.77	187.77	n/a	n/a

Feeders No. 1 (800-900 lb)

	Steers	Trend
South Dakota	142.50	n/a
Billings	145.00-166.50	steady/+4
Dodge City	146.50	-2/-4

USDA

Cattle / Beef Trade

	Exports		% from 2016	
	Sltr. cattle to U.S. (head)	Feeder C&C to U.S. (head)	Total beef to U.S. (tonnes)	Total beef, all nations (tonnes)
Sltr. cattle to U.S. (head)	274,442 (1)	81,357 (1)	-10.3	-42.6
Feeder C&C to U.S. (head)	104,175 (3)	144,705 (3)	-1.8	+4.7
Total beef to U.S. (tonnes)	144,705 (3)	144,705 (3)	+4.7	+4.7
Total beef, all nations (tonnes)	144,705 (3)	144,705 (3)	+4.7	+4.7

	Imports		% from 2016	
	Sltr. cattle from U.S. (head)	Feeder C&C from U.S. (head)	Total beef from U.S. (tonnes)	Total beef, all nations (tonnes)
Sltr. cattle from U.S. (head)	n/a (2)	23,496 (2)	n/a	+164.0
Feeder C&C from U.S. (head)	69,047 (4)	100,129 (4)	-0.7	-10.8
Total beef from U.S. (tonnes)	100,129 (4)	100,129 (4)	-10.8	-10.8
Total beef, all nations (tonnes)	100,129 (4)	100,129 (4)	-10.8	-10.8

(1) to July 15/17 (2) to May 31/17 (3) to May 31/17 (4) to July 22/17
 Agriculture Canada

Cattle Slaughter

July 22	Fed. inspections only	
	Canada	U.S.
To date 2017	1,514,487	17,401,832
To date 2016	1,402,182	16,400,011
% Change 17/16	+8.0	+6.1

Chicago Futures (\$/cwt)

	Close		Trend	Year ago
	July 28	July 21		
Live Cattle				
Aug	112.90	116.42	-3.52	113.08
Oct	112.43	117.40	-4.97	111.73
Dec	113.40	118.18	-4.78	112.40
Feb	115.28	119.38	-4.10	111.80
Apr	115.35	118.58	-3.23	110.23
Feeder Cattle				
Aug	146.05	152.95	-6.90	140.05
Sep	147.10	153.15	-6.05	138.58
Oct	146.85	151.95	-5.10	137.73
Nov	145.80	150.43	-4.63	135.25
Jan	143.33	147.05	-3.72	131.78

Beef Cutout (\$/cwt)

	July 27		July 20		Yr. ago
	US Choice (uss)	July 21	July 14	July 7	
US Choice (uss)	206.43	207.65	198.76	198.76	
Cdn AAA (cs)	n/a	n/a	n/a	n/a	

Sheep (\$/lb.) & Goats (\$/head)

	July 24		July 17	
	Wool sheep	70-85 lb	86-105 lb	> 106 lb
Wool sheep	2.55-2.80	2.57-3.00	2.52-2.82	2.15-2.54
70-85 lb	2.50-2.73	2.52-2.82	2.15-2.54	2.15-2.54
86-105 lb	2.18-2.54	2.15-2.54	2.15-2.54	2.15-2.54
> 106 lb	2.15-2.26	2.15-2.28	2.15-2.28	2.15-2.28

Beaver Hill Auction Services Ltd.

Shipping Jul 29

	July 24		July 17	
	New lambs	65-80 lb	80-95 lb	> 95 lb
New lambs	2.75-3.05	2.68-2.84	2.23-2.73	2.23-2.50
65-80 lb	2.27-2.74	2.23-2.73	2.23-2.50	2.23-2.50
80-95 lb	2.27-2.52	2.23-2.50	2.23-2.50	2.23-2.50
> 95 lb	2.18-2.39	2.33-2.61	2.33-2.61	2.33-2.61
> 110 lb	2.11-2.20	1.80-2.40	1.80-2.40	1.80-2.40
Feeder lambs	1.85-2.50	1.80-2.50	1.80-2.50	1.80-2.50
Sheep	1.15-1.30	1.12-1.25	1.12-1.25	1.12-1.25
Rams	1.15-1.50	1.15-1.40	1.15-1.40	1.15-1.40
Kids	95-160	95-160	95-160	95-160

Ontario Stockyards Inc.

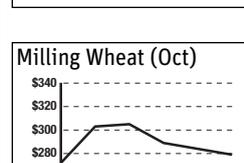
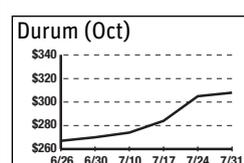
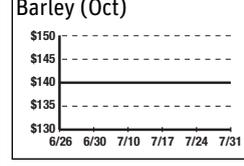
Shipping Jul 29

	July 24		July 17	
	Wool lambs <80 lb	Wool lambs 81-95 lb	Wool lambs 96-115 lb	Hair lambs <95 lb
Wool lambs <80 lb	2.42	2.34	2.20	2.24
Wool lambs 81-95 lb	2.42	2.34	2.20	2.24
Wool lambs 96-115 lb	2.42	2.34	2.20	2.24
Hair lambs <95 lb	2.42	2.34	2.20	2.24

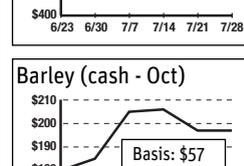
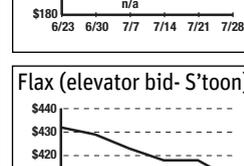
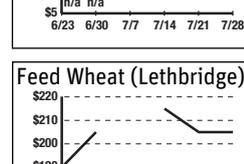
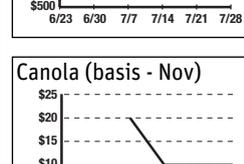
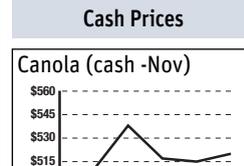
Sask. Sheep Dev. Bd.

GRAINS

ICE Futures Canada



Cash Prices



Canola and barley are basis par region. Feed wheat basis Lethbridge. Basis is best bid.

Chicago Nearby Futures (\$/100 bu.)

	Canada		U.S.	
	To July 22	Fed. inspections only	To July 22	Fed. inspections only
To date 2017	11,510,713	65,261,561	65,261,561	65,261,561
To date 2016	11,266,655	-63,091,801	-63,091,801	-63,091,801
% change 17/16	+2.2	+3.4	+3.4	+3.4

Agriculture Canada

Chicago Hogs Lean (\$/cwt)

	Close		Trend	Year ago
	July 28	July 21		
Aug	81.40	81.10	+0.30	68.98
Oct	66.50	67.23	-0.73	59.05
Dec	61.05	61.98	-0.93	54.75
Feb	66.18	66.95	-0.77	59.15

Chicago Hogs Lean (\$/cwt)

	Close		Trend	Year ago
	July 28	July 21		
Aug	81.40	81.10	+0.30	68.98
Oct	66.50	67.23	-0.73	59.05
Dec	61.05	61.98	-0.93	54.75
Feb	66.18	66.95	-0.77	59.15

Chicago Hogs Lean (\$/cwt)

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	July 28	July 21		
Aug	81.40	81.10	+0.30	68.98
Oct	66.50	67.23	-0.73	59.05
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Feb	66.18	66.95	-0.77	59.15

Pulse and Special Crops

Source: STAT Publishing, which solicits bids from AGT Inc., Canpulse Foods, CGF Brokerage, Maviga NA, Parrish and Heimbecker, Scoular Canada and Simpson Seeds. Prices for dressed product at plant.

	July 28	July 21	June 30
Laird lentils, No. 1 (c/lb)	40.43	40.43	44.67
Laird lentils, No. 2 (c/lb)	36.50	36.50	36.67
Laird lentils, Xtra 3 (c/lb)	25.80	25.80	25.20
Richlea lentils, No. 1 (c/lb)	34.00	34.00	37.62
Eston lentils, No. 1 (c/lb)	34.83	34.83	37.36
Eston lentils, No. 2 (c/lb)	31.60	31.60	35.25
Eston lentils, Xtra 3 (c/lb)	25.00	25.00	25.00
Sm. Red lentils, No. 2 (c/lb)	23.08	23.08	21.53
Sm. Red lentils, Xtra 3 (c/lb)	19.29	19.29	18.50
Peas, green No. 1 (\$/bu)	8.06	8.06	8.31
Peas, medium, yellow No. 1 (\$/bu)	9.33	9.33	9.33
Peas, sm. yellow No. 2 (\$/bu)	8.61	8.61	8.32
Feed peas (\$/bu)	6.03	6.03	6.03
Maple peas (\$/bu)	15.17	15.17	15.17
Mustard, yellow, No. 1 (c/lb)	32.00	32.00	31.20
Mustard, Oriental, No. 1 (c/lb)	29.67	29.67	30.50
Mustard, Brown, No. 1 (c/lb)	37.33	37.33	36.55
Canaryseed (c/lb)	22.68	22.68	20.82
Des			

NATURE'S COLOURS | A butterfly seeks what it needs on a western bergamot wildflower near Maidstone, Sask. | BARB MITCHELL PHOTO



THE WESTERN PRODUCER

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 Advertising director: **KELLY BERG**
 Classified sales mgr: **SHAUNA BRAND**

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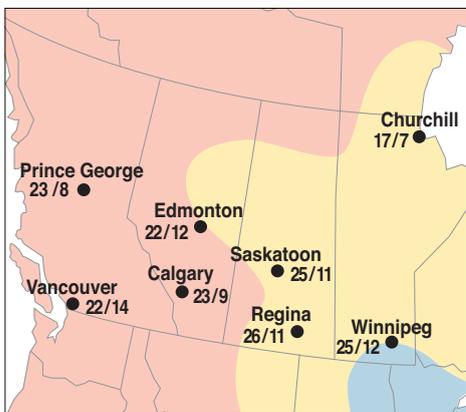
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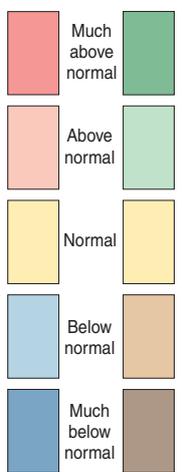
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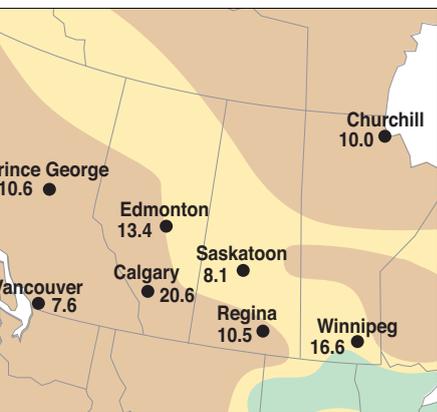
TEMPERATURE FORECAST
 Aug. 3 - 9 (in °C)



TEMP. MAP



PRECIPITATION FORECAST
 Aug. 3 - 9 (in mm)



The numbers on the above maps are average temperature and precipitation figures for the forecast week, based on historical data from 1971-2000. Maps provided by WeatherTec Services: www.weathertec.mb.ca n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

We acknowledge the financial support of the Government of Canada.



LAST WEEK'S WEATHER SUMMARY ENDING JULY 30

SASKATCHEWAN

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Assiniboia	37.7	9.2	0.0	92.0	45
Broadview	33.0	7.7	0.2	115.6	52
Eastend Cypress	33.6	9.4	0.3	105.1	54
Estevan	34.0	10.1	1.7	117.3	54
Kindersley	34.9	8.4	2.8	122.9	69
Maple Creek	36.3	7.3	0.0	118.7	65
Meadow Lake	31.6	10.6	29.8	368.7	184
Melfort	30.0	11.5	7.5	171.2	85
Nipawin	29.6	10.0	2.1	232.9	108
North Battleford	31.8	7.6	4.9	159.0	81
Prince Albert	29.2	8.8	13.6	212.2	101
Regina	37.7	8.0	1.6	79.0	39
Rockglen	36.2	8.8	0.0	74.7	38
Saskatoon	33.2	8.9	4.1	129.6	68
Swift Current	36.4	9.6	6.7	89.0	47
Val Marie	37.8	5.8	0.2	68.9	39
Wynyard	31.9	11.1	2.1	122.0	59
Yorkton	32.6	11.7	2.9	153.8	67

ALBERTA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brooks	34.7	7.0	0.2	137.4	81
Calgary	32.5	5.4	0.2	187.6	82
Cold Lake	29.8	11.0	24.9	321.7	152
Coronation	34.5	7.7	3.0	158.7	84
Edmonton	27.5	7.0	24.4	238.7	98
Grande Prairie	28.5	6.9	2.5	214.8	109
High Level	32.2	8.6	3.7	152.9	90
Lethbridge	36.2	5.3	0.0	161.9	84
Lloydminster	29.9	9.9	36.0	293.7	144
Medicine Hat	36.1	8.0	0.0	156.8	95
Milk River	35.7	6.2	0.0	238.1	117
Peace River	29.7	7.3	3.2	170.4	91
Pincher Creek	31.8	3.2	0.0	232.4	90
Red Deer	30.9	4.7	5.0	223.3	86
Stavely	31.4	4.7	0.4	244.4	107
Vegreville	28.9	8.9	18.2	267.0	132

All data provided by Agriculture and Agri-Food Canada's National Agroclimate Information Service: www.agr.gc.ca/drought. Data has undergone only preliminary quality checking. Maps provided by WeatherTec Services Inc.: www.weathertec.mb.ca

MANITOBA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brandon	31.8	10.3	4.6	143.2	62
Dauphin	31.5	14.1	0.7	219.7	97
Gimli	29.8	13.2	2.4	197.1	82
Melita	32.2	12.3	11.4	145.0	67
Morden	33.1	13.6	0.0	136.7	54
Portage La Prairie	31.4	15.2	14.4	178.0	73
Swan River	31.6	11.1	0.0	151.4	63
Winnipeg	31.0	13.2	5.4	181.2	72

BRITISH COLUMBIA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Cranbrook	34.8	9.8	0.0	103.1	60
Fort St. John	26.8	8.8	1.1	264.2	135
Kamloops	36.2	8.1	0.0	61.3	53
Kelowna	35.6	6.4	0.0	102.1	72
Prince George	27.8	4.5	3.5	213.6	108



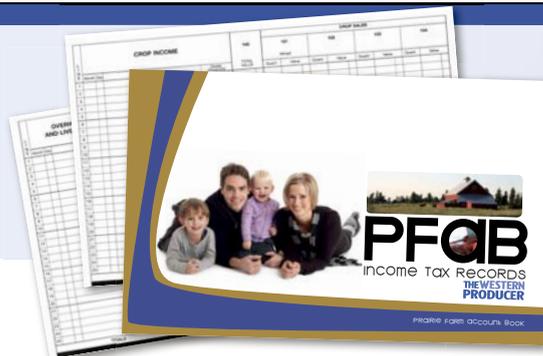
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